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Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

199006467

SGS Job Number: JD60906

Sampling Date: 02/24/23

Report to:

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ATTN: Distribution4

Total number of pages in report: 18



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

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Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD60906

 Lyndon Road Landfill
 Project No: 199006467

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the MDL

* JD60906-1	02/24/23	10:00	RB	02/25/23	SO	Soil	LR-MW06-08-09-022423
JD60906-1A	02/24/23	10:00	RB	02/25/23	SO	Soil	LR-MW06-08-09-022423
* JD60906-2	02/24/23	11:20	RB	02/25/23	SO	Soil	LR-MW06-0.0-0.2-022423
JD60906-2A	02/24/23	11:20	RB	02/25/23	SO	Soil	LR-MW06-0.0-0.2-022423
* JD60906-3	02/24/23	12:20	RB	02/25/23	SO	Soil	LR-MW06-0.2-1.0-022423
JD60906-3A	02/24/23	12:20	RB	02/25/23	SO	Soil	LR-MW06-0.2-1.0-022423
* JD60906-3D	02/24/23	12:20	RB	02/25/23	SO	Soil Dup/MSD	LR-MW06-0.2-1.0-022423_MSD
JD60906-3DA	02/24/23	12:20	RB	02/25/23	SO	Soil Dup/MSD	LR-MW06-0.2-1.0-022423_MSD
* JD60906-3S	02/24/23	12:20	RB	02/25/23	SO	Soil Matrix Spike	LR-MW06-0.2-1.0-022423_MS
JD60906-3SA	02/24/23	12:20	RB	02/25/23	SO	Soil Matrix Spike	LR-MW06-0.2-1.0-022423_MS
JD60906-4	02/24/23	13:30	RB	02/25/23	AQ	Equipment Blank	LR-EB-022423
* JD60906-5	02/24/23	13:30	RB	02/25/23	AQ	Trip Blank Soil	LR-TB-022423

* The following report applies to these samples only (7 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

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Client Sample ID:	LR-MW06-08-09-022423	
Lab Sample ID:	JD60906-1	Date Sampled: 02/24/23
Matrix:	SO - Soil	Date Received: 02/25/23
Method:	SW846 8270E SW846 3546	Percent Solids: 73.6
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR567.D	1	03/01/23 19:08	JY	03/01/23 13:00	OP44940	ECR24
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.044	0.029	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	53%		10-109%
321-60-8	2-Fluorobiphenyl	56%		11-109%
1718-51-0	Terphenyl-d14	65%		10-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW06-0.0-0.2-022423	
Lab Sample ID:	JD60906-2	Date Sampled: 02/24/23
Matrix:	SO - Soil	Date Received: 02/25/23
Method:	SW846 8270E SW846 3546	Percent Solids: 74.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR574.D	1	03/01/23 21:20	JY	03/01/23 13:00	OP44940	ECR24
Run #2							

	Initial Weight	Final Volume
Run #1	32.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.041	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	51%		10-109%
321-60-8	2-Fluorobiphenyl	50%		11-109%
1718-51-0	Terphenyl-d14	60%		10-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	LR-MW06-0.2-1.0-022423	Date Sampled:	02/24/23
Lab Sample ID:	JD60906-3	Date Received:	02/25/23
Matrix:	SO - Soil	Percent Solids:	84.8
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C182049.D	1	03/03/23 14:44	CL	n/a	n/a	V3C7968
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.011	0.0045	mg/kg	
71-43-2	Benzene	ND	0.00055	0.00050	mg/kg	
74-97-5	Bromochloromethane	ND	0.0055	0.00061	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0022	0.00047	mg/kg	
75-25-2	Bromoform	ND	0.0055	0.0015	mg/kg	
74-83-9	Bromomethane	ND	0.0055	0.00083	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.011	0.0027	mg/kg	
75-15-0	Carbon disulfide	ND	0.0022	0.00058	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0022	0.00067	mg/kg	
108-90-7	Chlorobenzene	ND	0.0022	0.00050	mg/kg	
75-00-3	Chloroethane	ND	0.0055	0.00065	mg/kg	
67-66-3	Chloroform	ND	0.0022	0.00057	mg/kg	
74-87-3	Chloromethane	ND	0.0055	0.0021	mg/kg	
110-82-7	Cyclohexane	ND	0.0022	0.00072	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0022	0.00076	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0022	0.00061	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0011	0.00046	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0011	0.00060	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0011	0.00054	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0011	0.00054	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0055	0.00079	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0011	0.00054	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0011	0.00051	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0011	0.00072	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0011	0.00092	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0011	0.00067	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0022	0.00052	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0022	0.00052	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0022	0.00050	mg/kg	
100-41-4	Ethylbenzene	ND	0.0011	0.00049	mg/kg	
76-13-1	Freon 113	ND	0.0055	0.0029	mg/kg	
591-78-6	2-Hexanone	ND	0.0055	0.0023	mg/kg	

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E = Indicates value exceeds calibration range

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Report of Analysis

Page 2 of 2

Client Sample ID:	LR-MW06-0.2-1.0-022423	Date Sampled:	02/24/23
Lab Sample ID:	JD60906-3	Date Received:	02/25/23
Matrix:	SO - Soil	Percent Solids:	84.8
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.0022	0.0016	mg/kg	
79-20-9	Methyl Acetate	ND	0.0055	0.0015	mg/kg	
108-87-2	Methylcyclohexane	ND	0.0022	0.00096	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0011	0.00051	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0055	0.0025	mg/kg	
75-09-2	Methylene chloride	ND	0.0055	0.0028	mg/kg	
100-42-5	Styrene	ND	0.0022	0.00044	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0022	0.00065	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0022	0.00063	mg/kg	
108-88-3	Toluene	ND	0.0011	0.00057	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0055	0.0027	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0055	0.0027	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0022	0.00053	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0022	0.00060	mg/kg	
79-01-6	Trichloroethene	ND	0.0011	0.00083	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0055	0.00075	mg/kg	
75-01-4	Vinyl chloride	ND	0.0022	0.00053	mg/kg	
	m,p-Xylene	ND	0.0011	0.00098	mg/kg	
95-47-6	o-Xylene	ND	0.0011	0.00050	mg/kg	
1330-20-7	Xylene (total)	ND	0.0011	0.00050	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-124%
17060-07-0	1,2-Dichloroethane-D4	100%		75-133%
2037-26-5	Toluene-D8	99%		79-125%
460-00-4	4-Bromofluorobenzene	95%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	mg/kg	

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW06-0.2-1.0-022423	Date Sampled:	02/24/23
Lab Sample ID:	JD60906-3	Date Received:	02/25/23
Matrix:	SO - Soil	Percent Solids:	84.8
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	CR578.D	5	03/01/23 22:35	JY	03/01/23 13:00	OP44940	ECR24
Run #2							

	Initial Weight	Final Volume
Run #1	31.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.37	0.091	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.92	0.11	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.92	0.16	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.92	0.33	mg/kg	
51-28-5	2,4-Dinitrophenol ^b	ND	0.92	0.69	mg/kg	
534-52-1	4,6-Dinitro-o-cresol ^b	ND	0.92	0.20	mg/kg	
95-48-7	2-Methylphenol	ND	0.37	0.12	mg/kg	
	3&4-Methylphenol	ND	0.37	0.15	mg/kg	
88-75-5	2-Nitrophenol ^b	ND	0.92	0.12	mg/kg	
100-02-7	4-Nitrophenol	ND	1.8	0.49	mg/kg	
87-86-5	Pentachlorophenol	ND	0.74	0.17	mg/kg	
108-95-2	Phenol	ND	0.37	0.096	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.92	0.12	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.92	0.14	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.92	0.11	mg/kg	
83-32-9	Acenaphthene	ND	0.18	0.064	mg/kg	
208-96-8	Acenaphthylene	ND	0.18	0.094	mg/kg	
98-86-2	Acetophenone	ND	0.92	0.040	mg/kg	
120-12-7	Anthracene	ND	0.18	0.11	mg/kg	
1912-24-9	Atrazine	ND	0.37	0.079	mg/kg	
56-55-3	Benzo(a)anthracene	0.0968	0.18	0.052	mg/kg	J
50-32-8	Benzo(a)pyrene	0.117	0.18	0.084	mg/kg	J
205-99-2	Benzo(b)fluoranthene	0.139	0.18	0.082	mg/kg	J
191-24-2	Benzo(g,h,i)perylene	0.118	0.18	0.092	mg/kg	J
207-08-9	Benzo(k)fluoranthene	ND	0.18	0.086	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.37	0.071	mg/kg	
85-68-7	Butyl benzyl phthalate ^b	ND	0.37	0.045	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.37	0.025	mg/kg	
100-52-7	Benzaldehyde	ND	0.92	0.046	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.37	0.044	mg/kg	
106-47-8	4-Chloroaniline	ND	0.92	0.067	mg/kg	
86-74-8	Carbazole	ND	0.37	0.027	mg/kg	

ND = Not detected MDL = Method Detection Limit

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B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-MW06-0.2-1.0-022423	Date Sampled:	02/24/23
Lab Sample ID:	JD60906-3	Date Received:	02/25/23
Matrix:	SO - Soil	Percent Solids:	84.8
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.37	0.073	mg/kg	
218-01-9	Chrysene	0.0907	0.18	0.058	mg/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	0.37	0.040	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.37	0.080	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.37	0.066	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.37	0.060	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.18	0.057	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.18	0.093	mg/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	ND	0.37	0.15	mg/kg	
123-91-1	1,4-Dioxane	ND	0.18	0.12	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.18	0.082	mg/kg	
132-64-9	Dibenzofuran	ND	0.37	0.075	mg/kg	
84-74-2	Di-n-butyl phthalate ^b	ND	0.37	0.030	mg/kg	
117-84-0	Di-n-octyl phthalate ^b	ND	0.37	0.046	mg/kg	
84-66-2	Diethyl phthalate	ND	0.37	0.039	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.37	0.033	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate ^b	ND	0.37	0.043	mg/kg	
206-44-0	Fluoranthene	0.151	0.18	0.082	mg/kg	J
86-73-7	Fluorene	ND	0.18	0.085	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.37	0.047	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.18	0.074	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1.8	0.074	mg/kg	
67-72-1	Hexachloroethane	ND	0.92	0.091	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0916	0.18	0.087	mg/kg	J
78-59-1	Isophorone	ND	0.37	0.040	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.18	0.042	mg/kg	
88-74-4	2-Nitroaniline ^b	ND	0.92	0.044	mg/kg	
99-09-2	3-Nitroaniline	ND	0.92	0.046	mg/kg	
100-01-6	4-Nitroaniline ^b	ND	0.92	0.048	mg/kg	
91-20-3	Naphthalene	ND	0.18	0.052	mg/kg	
98-95-3	Nitrobenzene	ND	0.37	0.071	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.37	0.053	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.92	0.068	mg/kg	
85-01-8	Phenanthrene	0.0963	0.18	0.062	mg/kg	J
129-00-0	Pyrene	0.155	0.18	0.059	mg/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.92	0.047	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		10-99%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: LR-MW06-0.2-1.0-022423
Lab Sample ID: JD60906-3
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Lyndon Road Landfill

Date Sampled: 02/24/23
Date Received: 02/25/23
Percent Solids: 84.8

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	66%		10-96%
118-79-6	2,4,6-Tribromophenol	63%		10-123%
4165-60-0	Nitrobenzene-d5	62%		10-109%
321-60-8	2-Fluorobiphenyl	62%		11-109%
1718-51-0	Terphenyl-d14	71%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	2.88	.83	mg/kg	J
	System artifact	3.31	.76	mg/kg	J
	Dibenzopyrene	9.34	1.5	mg/kg	J
	Dibenzopyrene	9.54	1.6	mg/kg	J
	Dibenzopyrene	10.55	.84	mg/kg	J
	Unknown	10.68	.86	mg/kg	J
	Total TIC, Semi-Volatile		4.8	mg/kg	J

- (a) Dilution required due to viscosity of the extract matrix.
 (b) Associated CCV outside of control limits high, sample was ND.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW06-0.2-1.0-022423	Date Sampled:	02/24/23
Lab Sample ID:	JD60906-3	Date Received:	02/25/23
Matrix:	SO - Soil	Percent Solids:	84.8
Method:	SW846 8151A SW846 3546		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	OA165228.D	10	02/28/23 23:19	RK	02/28/23 11:00	OP44941	GOA5837
Run #2							

	Initial Weight	Final Volume
Run #1	16.3 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.18	0.098	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.036	0.020	mg/kg	
93-76-5	2,4,5-T	ND	0.036	0.018	mg/kg	
75-99-0	Dalapon	ND	0.036	0.022	mg/kg	
1918-00-9	Dicamba	ND	0.036	0.019	mg/kg	
120-36-5	Dichloroprop	ND	0.18	0.098	mg/kg	
88-85-7	Dinoseb	ND	0.18	0.11	mg/kg	
94-74-6	MCPA	ND	18	10	mg/kg	
93-65-2	MCPP	ND	18	15	mg/kg	
87-86-5	Pentachlorophenol	ND	0.018	0.0059	mg/kg	
94-82-6	2,4-DB	ND	0.18	0.10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	5% ^b		10-138%
19719-28-9	2,4-DCAA	5% ^b		10-138%

(a) Dilution required due to viscosity of the extract matrix.

(b) Outside control limits due to matrix interference and dilution.

ND = Not detected MDL = Method Detection Limit

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW06-0.2-1.0-022423	Date Sampled:	02/24/23
Lab Sample ID:	JD60906-3	Date Received:	02/25/23
Matrix:	SO - Soil	Percent Solids:	84.8
Method:	SW846 8081B SW846 3570		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G46616.D	1	03/02/23 05:05	RK	02/28/23 16:00	OP44937	G8G2023
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00023	0.000091mg/kg		
319-84-6	alpha-BHC	ND	0.00023	0.000054mg/kg		
319-85-7	beta-BHC	ND	0.00023	0.000068mg/kg		
319-86-8	delta-BHC	ND	0.00023	0.000070mg/kg		
58-89-9	gamma-BHC (Lindane)	ND	0.00023	0.000082mg/kg		
5103-71-9	alpha-Chlordane	0.00089	0.00023	0.000063mg/kg		
5103-74-2	gamma-Chlordane	0.00081	0.00023	0.000070mg/kg		
60-57-1	Dieldrin	0.00053	0.00023	0.000075mg/kg		
72-54-8	4,4' -DDD ^a	0.00035	0.00023	0.000049mg/kg		
72-55-9	4,4' -DDE	0.00081	0.00023	0.000056mg/kg		
50-29-3	4,4' -DDT	0.0016	0.00023	0.000082mg/kg		
72-20-8	Endrin	ND	0.00023	0.000068mg/kg		
1031-07-8	Endosulfan sulfate	ND	0.00023	0.000056mg/kg		
7421-93-4	Endrin aldehyde	ND	0.00023	0.00014 mg/kg		
959-98-8	Endosulfan-I	ND	0.00023	0.000063mg/kg		
33213-65-9	Endosulfan-II	ND	0.00023	0.000065mg/kg		
76-44-8	Heptachlor	ND	0.00023	0.000061mg/kg		
1024-57-3	Heptachlor epoxide	0.00041	0.00023	0.000084mg/kg		
72-43-5	Methoxychlor	ND	0.00047	0.00018 mg/kg		
53494-70-5	Endrin ketone	ND	0.00023	0.000075mg/kg		
8001-35-2	Toxaphene	ND	0.0058	0.0039 mg/kg		

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		50-150%
877-09-8	Tetrachloro-m-xylene	91%		50-150%
2051-24-3	Decachlorobiphenyl	67%		50-150%
2051-24-3	Decachlorobiphenyl	86%		50-150%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW06-0.2-1.0-022423		
Lab Sample ID:	JD60906-3	Date Sampled:	02/24/23
Matrix:	SO - Soil	Date Received:	02/25/23
Method:	SW846 8082A SW846 3570	Percent Solids:	84.8
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM4701.D	1	03/03/23 10:39	RK	02/28/23 16:00	OP44938	GRM126
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.012	0.0022	mg/kg	
11104-28-2	Aroclor 1221	ND	0.012	0.0031	mg/kg	
11141-16-5	Aroclor 1232	ND	0.012	0.0030	mg/kg	
53469-21-9	Aroclor 1242	ND	0.012	0.0023	mg/kg	
12672-29-6	Aroclor 1248	ND	0.012	0.0051	mg/kg	
11097-69-1	Aroclor 1254	ND	0.012	0.0019	mg/kg	
11096-82-5	Aroclor 1260	0.0079	0.012	0.0035	mg/kg	J
11100-14-4	Aroclor 1268	ND	0.012	0.0025	mg/kg	
37324-23-5	Aroclor 1262	ND	0.012	0.0037	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	112%		50-150%
877-09-8	Tetrachloro-m-xylene	114%		50-150%
2051-24-3	Decachlorobiphenyl	98%		50-150%
2051-24-3	Decachlorobiphenyl	118%		50-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW06-0.2-1.0-022423	Date Sampled:	02/24/23
Lab Sample ID:	JD60906-3	Date Received:	02/25/23
Matrix:	SO - Soil	Percent Solids:	84.8
Project:	Lyndon Road Landfill		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6380	62	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Antimony	< 2.5	2.5	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Arsenic	3.3	2.5	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Barium	79.2	25	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Beryllium	0.41	0.25	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Cadmium	< 0.62	0.62	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Calcium	35500	1200	mg/kg	2	02/28/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Chromium	9.4	1.2	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Cobalt	< 6.2	6.2	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Copper	13.5	3.1	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Iron	11500	62	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Lead	446	2.5	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Magnesium	11000	620	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Manganese	363	1.9	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Mercury	0.055	0.038	mg/kg	1	02/27/23	02/28/23	LM	SW846 7471B ¹ SW846 7471B ⁴
Nickel	8.8	5.0	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Potassium	< 1200	1200	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Selenium	< 2.5	2.5	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Silver	0.81	0.62	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Sodium	< 1200	1200	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Thallium	< 1.2	1.2	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Vanadium	14.4	6.2	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³
Zinc	130	6.2	mg/kg	1	02/28/23	03/01/23	ND	SW846 6010D ² SW846 3050B ³

(1) Instrument QC Batch: MA53795

(2) Instrument QC Batch: MA53814

(3) Prep QC Batch: MP38086

(4) Prep QC Batch: MP38100

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW06-0.2-1.0-022423	Date Sampled:	02/24/23
Lab Sample ID:	JD60906-3	Date Received:	02/25/23
Matrix:	SO - Soil	Percent Solids:	84.8
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.36	0.26	mg/kg	1	02/28/23 12:35	MM	SW846 9012B/LACHAT
Solids, Percent	84.8		%	1	02/27/23 13:29	MP	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	LR-TB-022423	
Lab Sample ID:	JD60906-5	Date Sampled: 02/24/23
Matrix:	AQ - Trip Blank Soil	Date Received: 02/25/23
Method:	SW846 8260D	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2U54555.D	1	03/22/23 20:42	NW	n/a	n/a	V2U2135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^c	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane ^c	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone ^b	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TB-022423	Date Sampled:	02/24/23
Lab Sample ID:	JD60906-5	Date Received:	02/25/23
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^c	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	.96	5	ug/l	J
	Total TIC, Volatile		0	ug/l	

(a) Sample analyzed outside the holding time.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SO
SU
EB, TB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 1 of 1

EHSA-QAC-0023-04-FORM-Standard COC

[illegible]

2.5, 2.9°
1240

JD60906: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD60906

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL

Date / Time Received: 2/25/2023 9:20:00 AM

Delivery Method: FEDEX

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (2.5); Cooler 2: (2.9);

Cooler Temps (Corrected) °C: Cooler 1: (2.5); Cooler 2: (2.9);

Cooler Security
Y or N
Y or N

- | | |
|--|--|
| 1. Custody Seals Present: ☒ ☐ | 3. COC Present: ☒ ☐ |
| 2. Custody Seals Intact: ☒ ☐ | 4. Smpl Dates/Time OK ☒ ☐ |

Cooler Temperature
Y or N

- | | |
|---|-----------|
| 1. Temp criteria achieved: ☒ ☐ | |
| 2. Cooler temp verification: _____ | |
| 3. Cooler media: _____ | Ice (Bag) |
| 4. No. Coolers: _____ | 2 |

Quality Control Preservation
Y or N
N/A

- | | |
|---|--|
| 1. Trip Blank present / cooler: ☐ ☐ ☒ | |
| 2. Trip Blank listed on COC: ☐ ☐ ☒ | |
| 3. Samples preserved properly: ☒ ☐ | |
| 4. VOCs headspace free: ☐ ☐ ☒ | |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: ☒ ☐ | |
| 2. Container labeling complete: ☒ ☐ | |
| 3. Sample container label / COC agree: ☒ ☐ | |

Sample Integrity - Condition
Y or N

- | | |
|---|--------|
| 1. Sample recvd within HT: ☒ ☐ | |
| 2. All containers accounted for: ☒ ☐ | |
| 3. Condition of sample: _____ | Intact |

Sample Integrity - Instructions
Y or N
N/A

- | | |
|--|--|
| 1. Analysis requested is clear: ☒ ☐ | |
| 2. Bottles received for unspecified tests: ☐ ☒ | |
| 3. Sufficient volume recvd for analysis: ☒ ☐ | |
| 4. Compositing instructions clear: ☐ ☐ ☒ | |
| 5. Filtering instructions clear: ☐ ☐ ☒ | |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify) _____
--------------------	-----------------	-----------------	------------------------

Comments

SM089-03
Rev. Date 12/7/17

JD60906: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940006467

SGS Job Number: JD60984

Sampling Date: 02/27/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 32



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD60984

Lyndon Road Landfill
Project No: 1940006467

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

* JD60984-1	02/27/23	10:00 BH	02/28/23	SO	Soil	LR-MW07-0.0-0.5-022723
* JD60984-2	02/27/23	10:00 BH	02/28/23	SO	Soil	LR-MW07-0.0-0.2-022723
JD60984-2A	02/27/23	10:00 BH	02/28/23	SO	Soil	LR-MW07-0.0-0.2-022723
* JD60984-3	02/27/23	10:00 BH	02/28/23	SO	Soil	LR-MW07-0.2-1.0-022723
JD60984-3A	02/27/23	10:00 BH	02/28/23	SO	Soil	LR-MW07-0.2-1.0-022723
* JD60984-4	02/27/23	14:00 BH	02/28/23	SO	Soil	LR-MW-05-0.0-0.2-022723
JD60984-4A	02/27/23	14:00 BH	02/28/23	SO	Soil	LR-MW-05-0.0-0.2-022723
* JD60984-5	02/27/23	14:20 BH	02/28/23	SO	Soil	LR-MW-05-0.2-1.0-022723
JD60984-5A	02/27/23	14:20 BH	02/28/23	SO	Soil	LR-MW-05-0.2-1.0-022723
* JD60984-6	02/27/23	00:00 BH	02/28/23	SO	Soil	DUP-022723
JD60984-6A	02/27/23	00:00 BH	02/28/23	SO	Soil	DUP-022723
JD60984-7	02/27/23	15:50 BH	02/28/23	AQ	Equipment Blank	LR-EB-022723

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD60984

Lyndon Road Landfill

Project No: 1940006467

Sample Number	Collected		Matrix				Client Sample ID
	Date	Time By	Received	Code	Type		
* JD60984-8	02/27/23	15:50 BH	02/28/23	AQ	Trip Blank Soil		TB-022723
* JD60984-9	02/27/23	15:30	02/28/23	SO	Soil		LR-MW-07-22-24-022723
JD60984-9A	02/27/23	15:30	02/28/23	SO	Soil		LR-MW-07-22-24-022723

* The following report applies to these samples only (7 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 2

Client Sample ID:	LR-MW07-0.0-0.5-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-1	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	81.2
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I249013.D	1	03/03/23 21:20	CL	n/a	n/a	VI10106
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0174	0.013	0.0054	mg/kg	
71-43-2	Benzene	ND	0.00066	0.00060	mg/kg	
74-97-5	Bromochloromethane	ND	0.0066	0.00073	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0026	0.00056	mg/kg	
75-25-2	Bromoform	ND	0.0066	0.0018	mg/kg	
74-83-9	Bromomethane	ND	0.0066	0.0010	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.013	0.0032	mg/kg	
75-15-0	Carbon disulfide	ND	0.0026	0.00070	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0026	0.00081	mg/kg	
108-90-7	Chlorobenzene	ND	0.0026	0.00060	mg/kg	
75-00-3	Chloroethane	ND	0.0066	0.00077	mg/kg	
67-66-3	Chloroform	ND	0.0026	0.00068	mg/kg	
74-87-3	Chloromethane	ND	0.0066	0.0026	mg/kg	
110-82-7	Cyclohexane	ND	0.0026	0.00086	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0026	0.00091	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0026	0.00073	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0013	0.00055	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0013	0.00072	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0013	0.00065	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0013	0.00065	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0066	0.00095	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0013	0.00065	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0013	0.00062	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0013	0.00086	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0013	0.0011	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0013	0.00080	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0026	0.00062	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0026	0.00062	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0026	0.00060	mg/kg	
100-41-4	Ethylbenzene	ND	0.0013	0.00059	mg/kg	
76-13-1	Freon 113	ND	0.0066	0.0035	mg/kg	
591-78-6	2-Hexanone ^a	ND	0.0066	0.0028	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-MW07-0.0-0.5-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-1	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	81.2
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.0026	0.0019	mg/kg	
79-20-9	Methyl Acetate	0.0268	0.0066	0.0018	mg/kg	
108-87-2	Methylcyclohexane	ND	0.0026	0.0011	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0013	0.00061	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK ^a	ND	0.0066	0.0030	mg/kg	
75-09-2	Methylene chloride	ND	0.0066	0.0034	mg/kg	
100-42-5	Styrene ^a	ND	0.0026	0.00053	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0026	0.00078	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0026	0.00076	mg/kg	
108-88-3	Toluene	ND	0.0013	0.00069	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0066	0.0033	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0066	0.0033	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0026	0.00063	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0026	0.00073	mg/kg	
79-01-6	Trichloroethene	ND	0.0013	0.0010	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0066	0.00090	mg/kg	
75-01-4	Vinyl chloride	ND	0.0026	0.00063	mg/kg	
	m,p-Xylene	ND	0.0013	0.0012	mg/kg	
95-47-6	o-Xylene	ND	0.0013	0.00060	mg/kg	
1330-20-7	Xylene (total)	ND	0.0013	0.00060	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-124%
17060-07-0	1,2-Dichloroethane-D4	108%		75-133%
2037-26-5	Toluene-D8	97%		79-125%
460-00-4	4-Bromofluorobenzene	96%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
2153-66-4	Santolina triene	8.26	.009	mg/kg	JN
	Total TIC, Volatile		.009	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW07-0.0-0.2-022723	
Lab Sample ID:	JD60984-2	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	SW846 8270E SW846 3546	Percent Solids: 75.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P509060.D	1	03/01/23 22:28	HL	03/01/23 13:00	OP44956	E6P3845
Run #2							

	Initial Weight	Final Volume
Run #1	31.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.083	0.021	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.21	0.025	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.21	0.035	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.21	0.074	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.21	0.16	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.21	0.044	mg/kg	
95-48-7	2-Methylphenol	ND	0.083	0.027	mg/kg	
	3&4-Methylphenol	ND	0.083	0.034	mg/kg	
88-75-5	2-Nitrophenol	ND	0.21	0.027	mg/kg	
100-02-7	4-Nitrophenol	ND	0.42	0.11	mg/kg	
87-86-5	Pentachlorophenol ^a	ND	0.17	0.039	mg/kg	
108-95-2	Phenol	ND	0.083	0.022	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.21	0.028	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.21	0.031	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.21	0.025	mg/kg	
83-32-9	Acenaphthene	ND	0.042	0.014	mg/kg	
208-96-8	Acenaphthylene	ND	0.042	0.021	mg/kg	
98-86-2	Acetophenone	ND	0.21	0.0089	mg/kg	
120-12-7	Anthracene	ND	0.042	0.025	mg/kg	
1912-24-9	Atrazine	ND	0.083	0.018	mg/kg	
56-55-3	Benzo(a)anthracene	0.0844	0.042	0.012	mg/kg	
50-32-8	Benzo(a)pyrene	0.108	0.042	0.019	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.134	0.042	0.018	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0770	0.042	0.021	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0572	0.042	0.019	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.083	0.016	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.083	0.010	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.083	0.0057	mg/kg	
100-52-7	Benzaldehyde	ND	0.21	0.010	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.083	0.0099	mg/kg	
106-47-8	4-Chloroaniline	ND	0.21	0.015	mg/kg	
86-74-8	Carbazole	0.0133	0.083	0.0060	mg/kg	J

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-MW07-0.0-0.2-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-2	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	75.7
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.083	0.016	mg/kg	
218-01-9	Chrysene	0.0980	0.042	0.013	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.083	0.0089	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.083	0.018	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.083	0.015	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.083	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.042	0.013	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.042	0.021	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.083	0.035	mg/kg	
123-91-1	1,4-Dioxane	ND	0.042	0.027	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0257	0.042	0.018	mg/kg	J
132-64-9	Dibenzofuran	ND	0.083	0.017	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.083	0.0068	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.083	0.010	mg/kg	
84-66-2	Diethyl phthalate	ND	0.083	0.0088	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.083	0.0074	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.083	0.0097	mg/kg	
206-44-0	Fluoranthene	0.158	0.042	0.019	mg/kg	
86-73-7	Fluorene	ND	0.042	0.019	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.083	0.011	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.042	0.017	mg/kg	
77-47-4	Hexachlorocyclopentadiene ^a	ND	0.42	0.017	mg/kg	
67-72-1	Hexachloroethane	ND	0.21	0.021	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0745	0.042	0.019	mg/kg	
78-59-1	Isophorone	ND	0.083	0.0089	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.042	0.0094	mg/kg	
88-74-4	2-Nitroaniline ^b	ND	0.21	0.0098	mg/kg	
99-09-2	3-Nitroaniline	ND	0.21	0.010	mg/kg	
100-01-6	4-Nitroaniline	ND	0.21	0.011	mg/kg	
91-20-3	Naphthalene	ND	0.042	0.012	mg/kg	
98-95-3	Nitrobenzene	ND	0.083	0.016	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine ^b	ND	0.083	0.012	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.21	0.015	mg/kg	
85-01-8	Phenanthrene	0.0691	0.042	0.014	mg/kg	
129-00-0	Pyrene	0.132	0.042	0.013	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.21	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		10-99%

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B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-MW07-0.0-0.2-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-2	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	75.7
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	58%		10-96%
118-79-6	2,4,6-Tribromophenol	62%		10-123%
4165-60-0	Nitrobenzene-d5	62%		10-109%
321-60-8	2-Fluorobiphenyl	58%		11-109%
1718-51-0	Terphenyl-d14	59%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.06	.29	mg/kg	J
	Unknown	4.33	.44	mg/kg	J
	Unknown	7.94	.21	mg/kg	J
	Unknown	8.95	.21	mg/kg	J
57-10-3	n-Hexadecanoic acid	9.05	.52	mg/kg	JN
	Unknown	9.30	.22	mg/kg	J
	Unknown	9.99	.65	mg/kg	J
	Unknown	10.07	.21	mg/kg	J
	Unknown acid	12.37	.24	mg/kg	J
	Unknown	13.02	.31	mg/kg	J
	Unknown acid	13.37	.3	mg/kg	J
	Alkane	13.96	.37	mg/kg	J
	Unknown	13.99	.53	mg/kg	J
	Unknown	14.61	.44	mg/kg	J
	Alkane	14.84	1	mg/kg	J
	Unknown	14.88	.29	mg/kg	J
59-02-9	Vitamin E	15.01	.2	mg/kg	JN
	Unknown	15.47	.4	mg/kg	J
	Unknown	15.65	.29	mg/kg	J
	Alkane	15.70	.21	mg/kg	J
	Unknown	15.77	.24	mg/kg	J
	Sitosterol	15.95	.55	mg/kg	J
	Unknown	16.48	.3	mg/kg	J
	Unknown	16.66	.39	mg/kg	J
	Unknown	16.95	.32	mg/kg	J
	Total TIC, Semi-Volatile		9.13	mg/kg	J

(a) Associated CCV outside of control limits low.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW07-0.0-0.2-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-2	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	75.7
Method:	SW846 8151A SW846 3546		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G3920.D	1	03/03/23 16:19	MLC	03/01/23 09:45	OP44957	G9G211
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.021	0.011	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.0042	0.0024	mg/kg	
93-76-5	2,4,5-T	ND	0.0042	0.0021	mg/kg	
75-99-0	Dalapon	ND	0.0042	0.0026	mg/kg	
1918-00-9	Dicamba	ND	0.0042	0.0022	mg/kg	
120-36-5	Dichloroprop	ND	0.021	0.011	mg/kg	
88-85-7	Dinoseb	ND	0.021	0.013	mg/kg	
94-74-6	MCPA	ND	2.1	1.2	mg/kg	
93-65-2	MCP	ND	2.1	1.8	mg/kg	
87-86-5	Pentachlorophenol	ND	0.0021	0.00068	mg/kg	
94-82-6	2,4-DB	ND	0.021	0.012	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	22%		10-138%
19719-28-9	2,4-DCAA	21%		10-138%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW07-0.0-0.2-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-2	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	75.7
Method:	SW846 8081B SW846 3546		
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G183284.D	1	03/11/23 02:37	RK	03/10/23 09:30	OP45112	G1G6409
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.5 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00080	0.00066	mg/kg	
319-84-6	alpha-BHC	ND	0.00080	0.00065	mg/kg	
319-85-7	beta-BHC	ND	0.00080	0.00072	mg/kg	
319-86-8	delta-BHC ^a	ND	0.00080	0.00077	mg/kg	
58-89-9	gamma-BHC (Lindane)	0.0022	0.00080	0.00059	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00080	0.00065	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00080	0.00036	mg/kg	
60-57-1	Dieldrin ^b	0.00089	0.00080	0.00055	mg/kg	
72-54-8	4,4' -DDD	ND	0.00080	0.00073	mg/kg	
72-55-9	4,4' -DDE	ND	0.00080	0.00070	mg/kg	
50-29-3	4,4' -DDT ^b	0.0012	0.00080	0.00071	mg/kg	
72-20-8	Endrin	ND	0.00080	0.00062	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00080	0.00063	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00080	0.00045	mg/kg	
959-98-8	Endosulfan-I	ND	0.00080	0.00046	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00080	0.00050	mg/kg	
76-44-8	Heptachlor	ND	0.00080	0.00069	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00080	0.00056	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	0.00064	mg/kg	
53494-70-5	Endrin ketone ^a	ND	0.00080	0.00058	mg/kg	
8001-35-2	Toxaphene	ND	0.020	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	116%		13-162%
877-09-8	Tetrachloro-m-xylene	121%		13-162%
2051-24-3	Decachlorobiphenyl	85%		10-180%
2051-24-3	Decachlorobiphenyl	155%		10-180%

(a) Associated CCV outside of control limits high, sample was ND.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW07-0.0-0.2-022723	
Lab Sample ID:	JD60984-2	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	SW846 8082A SW846 3546	Percent Solids: 75.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2497998.D	1	03/02/23 09:11	CP	03/01/23 09:45	OP44959	GXX8097
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.041	0.019	mg/kg	
11104-28-2	Aroclor 1221	ND	0.041	0.025	mg/kg	
11141-16-5	Aroclor 1232	ND	0.041	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.041	0.017	mg/kg	
12672-29-6	Aroclor 1248	ND	0.041	0.037	mg/kg	
11097-69-1	Aroclor 1254	ND	0.041	0.022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.041	0.017	mg/kg	
11100-14-4	Aroclor 1268	ND	0.041	0.017	mg/kg	
37324-23-5	Aroclor 1262	ND	0.041	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	65%		10-174%
877-09-8	Tetrachloro-m-xylene	58%		10-174%
2051-24-3	Decachlorobiphenyl	75%		10-195%
2051-24-3	Decachlorobiphenyl	85%		10-195%

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW07-0.0-0.2-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-2	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	75.7
Project:	Lyndon Road Landfill		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4140	64	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Antimony	< 2.6	2.6	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Arsenic	< 2.6	2.6	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Barium	27.0	26	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Beryllium	< 0.26	0.26	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Cadmium	< 0.64	0.64	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Calcium	70500	3200	mg/kg	5	03/01/23	03/07/23	ND	SW846 6010D ³ SW846 3050B ⁴
Chromium	9.7	1.3	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Cobalt	< 6.4	6.4	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Copper	10.8	3.2	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Iron	9090	64	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Lead	27.6	2.6	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Magnesium	31600	640	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Manganese	327	1.9	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Mercury	< 0.040	0.040	mg/kg	1	03/01/23	03/02/23	LM	SW846 7471B ¹ SW846 7471B ⁵
Nickel	6.8	5.1	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Potassium	< 1300	1300	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Selenium	< 2.6	2.6	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Silver	< 0.64	0.64	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Sodium	< 1300	1300	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Thallium	< 1.3	1.3	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Vanadium	9.8	6.4	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴
Zinc	83.9	6.4	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ⁴

(1) Instrument QC Batch: MA53809

(2) Instrument QC Batch: MA53819

(3) Instrument QC Batch: MA53829

(4) Prep QC Batch: MP38111

(5) Prep QC Batch: MP38140

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW07-0.0-0.2-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-2	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	75.7
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.50	0.30	mg/kg	1	03/01/23 15:10	MM	SW846 9012B/LACHAT
Solids, Percent	75.7		%	1	03/01/23 11:50	RP	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW07-0.2-1.0-022723	
Lab Sample ID:	JD60984-3	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	SW846 8270E SW846 3546	Percent Solids: 85.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6P509056.D	5	03/01/23 20:54	HL	03/01/23 13:00	OP44956	E6P3845
Run #2							

	Initial Weight	Final Volume
Run #1	32.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.18	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	28%		10-109%
321-60-8	2-Fluorobiphenyl	47%		11-109%
1718-51-0	Terphenyl-d14	46%		10-120%

(a) Dilution required due to viscosity of the extract matrix.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW-05-0.0-0.2-022723		
Lab Sample ID:	JD60984-4	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	SW846 8270E SW846 3546	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P509059.D	1	03/01/23 22:04	HL	03/01/23 13:00	OP44956	E6P3845
Run #2 ^a	6P509101.D	2	03/04/23 05:01	HL	03/01/23 13:00	OP44956	E6P3846

	Initial Weight	Final Volume
Run #1	32.0 g	1.0 ml
Run #2	32.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.043	0.028	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%	62%	10-109%
321-60-8	2-Fluorobiphenyl	64%	59%	11-109%
1718-51-0	Terphenyl-d14	66%	58%	10-120%

(a) Confirmation run for internal standard areas.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW-05-0.2-1.0-022723	
Lab Sample ID:	JD60984-5	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	SW846 8270E SW846 3546	Percent Solids: 78.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P509062.D	1	03/01/23 23:15	HL	03/01/23 13:00	OP44956	E6P3845
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.042	0.028	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	49%		10-109%
321-60-8	2-Fluorobiphenyl	46%		11-109%
1718-51-0	Terphenyl-d14	50%		10-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	DUP-022723		
Lab Sample ID:	JD60984-6	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	SW846 8260D	Percent Solids:	73.7
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I249014.D	1	03/03/23 21:42	CL	n/a	n/a	VI10106
Run #2							

	Initial Weight
Run #1	6.7 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.010	0.0042	mg/kg	
71-43-2	Benzene	ND	0.00051	0.00046	mg/kg	
74-97-5	Bromochloromethane	ND	0.0051	0.00057	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0020	0.00043	mg/kg	
75-25-2	Bromoform	ND	0.0051	0.0014	mg/kg	
74-83-9	Bromomethane	ND	0.0051	0.00077	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.010	0.0025	mg/kg	
75-15-0	Carbon disulfide	ND	0.0020	0.00054	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00063	mg/kg	
108-90-7	Chlorobenzene	ND	0.0020	0.00046	mg/kg	
75-00-3	Chloroethane	ND	0.0051	0.00060	mg/kg	
67-66-3	Chloroform	ND	0.0020	0.00053	mg/kg	
74-87-3	Chloromethane	ND	0.0051	0.0020	mg/kg	
110-82-7	Cyclohexane	ND	0.0020	0.00067	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00070	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0020	0.00057	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00043	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0010	0.00055	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0010	0.00050	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0010	0.00050	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0051	0.00074	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00050	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00048	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00066	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0010	0.00085	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00062	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00048	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00046	mg/kg	
100-41-4	Ethylbenzene	ND	0.0010	0.00046	mg/kg	
76-13-1	Freon 113	ND	0.0051	0.0027	mg/kg	
591-78-6	2-Hexanone ^a	ND	0.0051	0.0021	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	DUP-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-6	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	73.7
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.0020	0.0014	mg/kg	
79-20-9	Methyl Acetate	ND	0.0051	0.0014	mg/kg	
108-87-2	Methylcyclohexane	ND	0.0020	0.00089	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00047	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK ^a	ND	0.0051	0.0023	mg/kg	
75-09-2	Methylene chloride	ND	0.0051	0.0026	mg/kg	
100-42-5	Styrene ^a	ND	0.0020	0.00041	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.00061	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0020	0.00059	mg/kg	
108-88-3	Toluene	ND	0.0010	0.00053	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0051	0.0025	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0051	0.0025	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00049	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00056	mg/kg	
79-01-6	Trichloroethene	ND	0.0010	0.00077	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0051	0.00069	mg/kg	
75-01-4	Vinyl chloride	ND	0.0020	0.00049	mg/kg	
	m,p-Xylene	ND	0.0010	0.00091	mg/kg	
95-47-6	o-Xylene	ND	0.0010	0.00046	mg/kg	
1330-20-7	Xylene (total)	ND	0.0010	0.00046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-124%
17060-07-0	1,2-Dichloroethane-D4	107%		75-133%
2037-26-5	Toluene-D8	97%		79-125%
460-00-4	4-Bromofluorobenzene	97%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	mg/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	DUP-022723	
Lab Sample ID:	JD60984-6	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	SW846 8270E SW846 3546	Percent Solids: 73.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P509061.D	1	03/01/23 22:52	HL	03/01/23 13:00	OP44956	E6P3845
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.088	0.022	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.22	0.027	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.22	0.038	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.22	0.078	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.22	0.17	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.22	0.047	mg/kg	
95-48-7	2-Methylphenol	ND	0.088	0.028	mg/kg	
	3&4-Methylphenol	ND	0.088	0.036	mg/kg	
88-75-5	2-Nitrophenol	ND	0.22	0.029	mg/kg	
100-02-7	4-Nitrophenol	ND	0.44	0.12	mg/kg	
87-86-5	Pentachlorophenol ^a	ND	0.18	0.041	mg/kg	
108-95-2	Phenol	ND	0.088	0.023	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.22	0.029	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.22	0.033	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.22	0.026	mg/kg	
83-32-9	Acenaphthene	ND	0.044	0.015	mg/kg	
208-96-8	Acenaphthylene	ND	0.044	0.022	mg/kg	
98-86-2	Acetophenone	ND	0.22	0.0095	mg/kg	
120-12-7	Anthracene	0.0301	0.044	0.027	mg/kg	J
1912-24-9	Atrazine	ND	0.088	0.019	mg/kg	
56-55-3	Benzo(a)anthracene	0.131	0.044	0.012	mg/kg	
50-32-8	Benzo(a)pyrene	0.141	0.044	0.020	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.178	0.044	0.019	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0890	0.044	0.022	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0576	0.044	0.021	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.088	0.017	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.088	0.011	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.088	0.0060	mg/kg	
100-52-7	Benzaldehyde	ND	0.22	0.011	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.088	0.010	mg/kg	
106-47-8	4-Chloroaniline	ND	0.22	0.016	mg/kg	
86-74-8	Carbazole	0.0142	0.088	0.0064	mg/kg	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-6	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	73.7
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.088	0.017	mg/kg	
218-01-9	Chrysene	0.143	0.044	0.014	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.088	0.0094	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.088	0.019	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.088	0.016	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.088	0.014	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.044	0.014	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.044	0.022	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.088	0.037	mg/kg	
123-91-1	1,4-Dioxane	ND	0.044	0.029	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0270	0.044	0.019	mg/kg	J
132-64-9	Dibenzofuran	ND	0.088	0.018	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.088	0.0072	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.088	0.011	mg/kg	
84-66-2	Diethyl phthalate	ND	0.088	0.0094	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.088	0.0078	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.088	0.010	mg/kg	
206-44-0	Fluoranthene	0.242	0.044	0.020	mg/kg	
86-73-7	Fluorene	ND	0.044	0.020	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.088	0.011	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.044	0.018	mg/kg	
77-47-4	Hexachlorocyclopentadiene ^a	ND	0.44	0.018	mg/kg	
67-72-1	Hexachloroethane	ND	0.22	0.022	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0856	0.044	0.021	mg/kg	
78-59-1	Isophorone	ND	0.088	0.0094	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.044	0.010	mg/kg	
88-74-4	2-Nitroaniline ^b	ND	0.22	0.010	mg/kg	
99-09-2	3-Nitroaniline	ND	0.22	0.011	mg/kg	
100-01-6	4-Nitroaniline	ND	0.22	0.011	mg/kg	
91-20-3	Naphthalene	ND	0.044	0.012	mg/kg	
98-95-3	Nitrobenzene	ND	0.088	0.017	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine ^b	ND	0.088	0.013	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.22	0.016	mg/kg	
85-01-8	Phenanthrene	0.130	0.044	0.015	mg/kg	
129-00-0	Pyrene	0.214	0.044	0.014	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.22	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		10-99%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-022723		
Lab Sample ID:	JD60984-6	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	SW846 8270E SW846 3546	Percent Solids:	73.7
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	41%		10-96%
118-79-6	2,4,6-Tribromophenol	57%		10-123%
4165-60-0	Nitrobenzene-d5	55%		10-109%
321-60-8	2-Fluorobiphenyl	51%		11-109%
1718-51-0	Terphenyl-d14	53%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkane	3.97	.24	mg/kg	J
	Unknown	4.08	.2	mg/kg	J
	Unknown	4.33	.29	mg/kg	J
	Unknown	4.72	.23	mg/kg	J
	Unknown	7.95	.22	mg/kg	J
	Unknown	8.95	.22	mg/kg	J
57-10-3	n-Hexadecanoic acid	9.05	.38	mg/kg	JN
	Unknown	9.30	.18	mg/kg	J
	Unknown	9.99	.61	mg/kg	J
	Unknown	13.02	.28	mg/kg	J
	Unknown acid	13.37	.3	mg/kg	J
	Unknown	13.99	1	mg/kg	J
	Unknown	14.61	.53	mg/kg	J
	Alkane	14.84	.96	mg/kg	J
	Unknown	14.88	.27	mg/kg	J
	Unknown	15.48	.38	mg/kg	J
	Unknown	15.65	.31	mg/kg	J
	Alkane	15.70	.22	mg/kg	J
	Unknown	15.78	.23	mg/kg	J
	Sitosterol	15.95	.59	mg/kg	J
	Unknown	16.22	.22	mg/kg	J
	Unknown	16.49	.24	mg/kg	J
	Unknown	16.66	.48	mg/kg	J
	Unknown	16.88	.23	mg/kg	J
	Unknown	16.94	.4	mg/kg	J
	Total TIC, Semi-Volatile		9.21	mg/kg	J

(a) Associated CCV outside of control limits low.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	DUP-022723	
Lab Sample ID:	JD60984-6	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	SW846 8151A SW846 3546	Percent Solids: 73.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G3921.D	1	03/03/23 16:41	MLC	03/01/23 09:45	OP44957	G9G211
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.022	0.012	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.0044	0.0025	mg/kg	
93-76-5	2,4,5-T	ND	0.0044	0.0022	mg/kg	
75-99-0	Dalapon	ND	0.0044	0.0027	mg/kg	
1918-00-9	Dicamba	ND	0.0044	0.0023	mg/kg	
120-36-5	Dichloroprop	ND	0.022	0.012	mg/kg	
88-85-7	Dinoseb	ND	0.022	0.014	mg/kg	
94-74-6	MCPA	ND	2.2	1.2	mg/kg	
93-65-2	MCP	ND	2.2	1.8	mg/kg	
87-86-5	Pentachlorophenol	ND	0.0022	0.00071	mg/kg	
94-82-6	2,4-DB	ND	0.022	0.012	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	14%		10-138%
19719-28-9	2,4-DCAA	13%		10-138%

ND = Not detected MDL = Method Detection Limit

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Report of Analysis

Page 1 of 1

Client Sample ID:	DUP-022723	
Lab Sample ID:	JD60984-6	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	SW846 8081B SW846 3546	Percent Solids: 73.7
Project:	Lyndon Road Landfill	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89263.D	1	03/11/23 02:41	TP	03/10/23 08:00	OP45143	G6G3230
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00082	0.00067	mg/kg	
319-84-6	alpha-BHC	ND	0.00082	0.00066	mg/kg	
319-85-7	beta-BHC	ND	0.00082	0.00074	mg/kg	
319-86-8	delta-BHC	ND	0.00082	0.00078	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00082	0.00060	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00082	0.00066	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00082	0.00037	mg/kg	
60-57-1	Dieldrin	ND	0.00082	0.00056	mg/kg	
72-54-8	4,4'-DDD	ND	0.00082	0.00075	mg/kg	
72-55-9	4,4'-DDE	0.0015	0.00082	0.00072	mg/kg	
50-29-3	4,4'-DDT ^a	0.0027	0.00082	0.00072	mg/kg	B
72-20-8	Endrin	ND	0.00082	0.00064	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00082	0.00064	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00082	0.00046	mg/kg	
959-98-8	Endosulfan-I	ND	0.00082	0.00047	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00082	0.00051	mg/kg	
76-44-8	Heptachlor	ND	0.00082	0.00070	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00082	0.00057	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	0.00065	mg/kg	
53494-70-5	Endrin ketone	ND	0.00082	0.00059	mg/kg	
8001-35-2	Toxaphene	ND	0.020	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		13-162%
877-09-8	Tetrachloro-m-xylene	103%		13-162%
2051-24-3	Decachlorobiphenyl	70%		10-180%
2051-24-3	Decachlorobiphenyl	95%		10-180%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	DUP-022723	
Lab Sample ID:	JD60984-6	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	SW846 8082A SW846 3546	Percent Solids: 73.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2497999.D	1	03/02/23 09:28	CP	03/01/23 09:45	OP44959	GXX8097
Run #2							

	Initial Weight	Final Volume
Run #1	16.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.042	0.019	mg/kg	
11104-28-2	Aroclor 1221	ND	0.042	0.026	mg/kg	
11141-16-5	Aroclor 1232	ND	0.042	0.027	mg/kg	
53469-21-9	Aroclor 1242	ND	0.042	0.017	mg/kg	
12672-29-6	Aroclor 1248	ND	0.042	0.037	mg/kg	
11097-69-1	Aroclor 1254	ND	0.042	0.022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.042	0.018	mg/kg	
11100-14-4	Aroclor 1268	ND	0.042	0.018	mg/kg	
37324-23-5	Aroclor 1262	ND	0.042	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		10-174%
877-09-8	Tetrachloro-m-xylene	88%		10-174%
2051-24-3	Decachlorobiphenyl	78%		10-195%
2051-24-3	Decachlorobiphenyl	74%		10-195%

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RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-6	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	73.7
Project:	Lyndon Road Landfill		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4990	69	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Antimony	< 2.8	2.8	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Arsenic	3.0	2.8	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Barium	31.6	28	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Beryllium	< 0.28	0.28	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Cadmium	< 0.69	0.69	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Calcium	27300	690	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Chromium	10.7	1.4	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Cobalt	< 6.9	6.9	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Copper	14.2	3.5	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Iron	10900	69	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Lead	37.0	2.8	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Magnesium	11600	690	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Manganese	339	2.1	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Mercury	< 0.038	0.038	mg/kg	1	03/01/23	03/02/23	LM	SW846 7471B ¹ SW846 7471B ⁴
Nickel	8.4	5.5	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Potassium	< 1400	1400	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Selenium	< 2.8	2.8	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Silver	< 0.69	0.69	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Sodium	< 1400	1400	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Thallium	< 1.4	1.4	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Vanadium	11.6	6.9	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³
Zinc	104	6.9	mg/kg	1	03/01/23	03/02/23	ND	SW846 6010D ² SW846 3050B ³

(1) Instrument QC Batch: MA53809

(2) Instrument QC Batch: MA53819

(3) Prep QC Batch: MP38111

(4) Prep QC Batch: MP38140

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	DUP-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-6	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	73.7
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.54	0.29	mg/kg	1	03/01/23 15:11	MM	SW846 9012B/LACHAT
Solids, Percent	73.7		%	1	03/01/23 11:50	RP	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	TB-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-8	Date Received:	02/28/23
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L353698.D	1	03/02/23 01:17	MS	n/a	n/a	VL10730
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	TB-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-8	Date Received:	02/28/23
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-MW-07-22-24-022723	
Lab Sample ID:	JD60984-9	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	SW846 8270E SW846 3546	Percent Solids: 96.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P509054.D	1	03/01/23 20:07	HL	03/01/23 13:00	OP44956	E6P3845
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.034	0.022	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	26%		10-109%
321-60-8	2-Fluorobiphenyl	25%		11-109%
1718-51-0	Terphenyl-d14	32%		10-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SO
SL
TB, EB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton

2235 Route 130, Dayton, NJ 08810

TEL. 732-329-0200 FAX: 732-329-3499/3480

www.sgs.com/ehsusa

Page 1 of 1

EHSA-QAC-0023-04-FORM-Standard COC

FED-EX Tracking #

5896

Bottle Order Center

Bottle Order

SGS Job #
MM-07-2302-9

[illegible]

IR-40

JD60984: Chain of Custody

Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD60984

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL

Date / Time Received: 2/28/2023 10:30:00 AM

Delivery Method: FEDEX

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (3.9);

Cooler Temps (Corrected) °C: Cooler 1: (3.9);

Cooler Security
Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature
Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation
Y or N N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation
Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition
Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions
Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Test Strip Lot #s:
231619
203117A
Other: (Specify) _____

Comments

- 1). Sample -4 ID on COC states "LR-MW-08-0.0-0.2-022723". ID on bottles state "LR-MW-05-0.0-0.2-022723". Collection Date & Time match.
- 2). Sample -5 ID on COC states "LR-MW-08-0.2-1.0-022723". ID on bottles state "LR-MW-05-0.2-1.0-022723". Collection Date & Time match.
- 3). Received "LR-MW07-22-24-022723" collected 2/27/23 @ 15:30 not originally on COC. Added as -9. Received same bottle profile as -3. Please confirm

JD60984: Chain of Custody

Page 2 of 3

Responded to by: Marie Meidhof

Response Date: 2/28/2023

- 1) Sample I#D 4 should be LR-MW-05-0.0-0.2-022723
- 2) SampleID for #5 should be LR-MW-05-0.2-1.0-022723
- 3) -9/-LR-MW-07-22-24-022723 should be analyzed for PFAS, percent solids, and 1,4-dioxane

JD60984: Chain of Custody
Page 3 of 3

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940006467

SGS Job Number: JD60984

Sampling Date: 02/27/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in blue ink, appearing to read "D. Chastain".

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD60984

Lyndon Road Landfill
Project No: 1940006467

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD60984-1	02/27/23	10:00	BH	02/28/23	SO	Soil	LR-MW07-0.0-0.5-022723
JD60984-2	02/27/23	10:00	BH	02/28/23	SO	Soil	LR-MW07-0.0-0.2-022723
* JD60984-2A	02/27/23	10:00	BH	02/28/23	SO	Soil	LR-MW07-0.0-0.2-022723
JD60984-3	02/27/23	10:00	BH	02/28/23	SO	Soil	LR-MW07-0.2-1.0-022723
* JD60984-3A	02/27/23	10:00	BH	02/28/23	SO	Soil	LR-MW07-0.2-1.0-022723
JD60984-4	02/27/23	14:00	BH	02/28/23	SO	Soil	LR-MW-05-0.0-0.2-022723
* JD60984-4A	02/27/23	14:00	BH	02/28/23	SO	Soil	LR-MW-05-0.0-0.2-022723
JD60984-5	02/27/23	14:20	BH	02/28/23	SO	Soil	LR-MW-05-0.2-1.0-022723
* JD60984-5A	02/27/23	14:20	BH	02/28/23	SO	Soil	LR-MW-05-0.2-1.0-022723
JD60984-6	02/27/23	00:00	BH	02/28/23	SO	Soil	DUP-022723
* JD60984-6A	02/27/23	00:00	BH	02/28/23	SO	Soil	DUP-022723
* JD60984-7	02/27/23	15:50	BH	02/28/23	AQ	Equipment Blank	LR-EB-022723

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD60984

Lyndon Road Landfill

Project No: 1940006467

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD60984-8	02/27/23	15:50 BH	02/28/23	AQ	Trip Blank Soil	TB-022723
JD60984-9	02/27/23	15:30	02/28/23	SO	Soil	LR-MW-07-22-24-022723
* JD60984-9A	02/27/23	15:30	02/28/23	SO	Soil	LR-MW-07-22-24-022723

* The following report applies to these samples only (14 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW07-0.0-0.2-022723		
Lab Sample ID:	JD60984-2A	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.7
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	4Q41826.D	1	03/09/23 16:26	AFL	03/08/23 08:30	F:OP95785	F:S4Q599
Run #2							

	Initial Weight	Final Volume
Run #1	4.95 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0011	0.00067	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00053	0.00013	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00027	0.00013	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00027	0.00013	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00014	0.00027	0.00013	mg/kg	J
375-95-1	Perfluorononanoic acid	ND	0.00027	0.00015	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00027	0.00013	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00027	0.00018	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00027	0.00013	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00027	0.00014	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00027	0.00013	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00027	0.00013	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00027	0.00021	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00027	0.00021	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00027	0.00019	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.00070	0.00027	0.00013	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00027	0.00024	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00027	0.00019	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00027	0.00020	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0011	0.00053	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0011	0.00053	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0011	0.00080	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00027	0.00013	mg/kg	
31506-32-8	MeFOSA	ND	0.00027	0.00018	mg/kg	
4151-50-2	EtFOSA	ND	0.00027	0.00013	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-MW07-0.0-0.2-022723		
Lab Sample ID:	JD60984-2A	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.7
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00027	0.00021	mg/kg	
2991-50-6	EtFOSAA	ND	0.00027	0.00026	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0027	0.0013	mg/kg	
1691-99-2	EtFOSE	ND	0.0027	0.0013	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0011	0.00039	mg/kg	
919005-14-4	ADONA	ND	0.0011	0.00045	mg/kg	
377-73-1	PFMPA	ND	0.00053	0.00027	mg/kg	
863090-89-5	PFMBA	ND	0.00053	0.00027	mg/kg	
151772-58-6	NFDHA	ND	0.00053	0.00033	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0011	0.00059	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0011	0.00053	mg/kg	
113507-82-7	PFEESA	ND	0.00053	0.00027	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0013	0.00068	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0067	0.0015	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0067	0.0017	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	86%		20-150%
	13C5-PFPeA	82%		20-150%
	13C5-PFHxA	83%		20-150%
	13C4-PFHpA	83%		20-150%
	13C8-PFOA	78%		20-150%
	13C9-PFNA	87%		20-150%
	13C6-PFDA	87%		20-150%
	13C7-PFUnDA	91%		20-150%
	13C2-PFDoDA	88%		20-150%
	13C2-PFTeDA	90%		20-150%
	13C3-PFBS	81%		20-150%
	13C3-PFHxS	86%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: LR-MW07-0.0-0.2-022723**Lab Sample ID:** JD60984-2A**Date Sampled:** 02/27/23**Matrix:** SO - Soil**Date Received:** 02/28/23**Method:** EPA DRAFT 1633 EPA 1633 DRAFT**Percent Solids:** 75.7**Project:** Lyndon Road Landfill

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	81%		20-150%
	13C8-FOSA	81%		20-150%
	d3-MeFOSA	71%		20-150%
	d5-EtFOSA	66%		20-150%
	d3-MeFOSAA	94%		20-150%
	d5-EtFOSAA	93%		20-150%
	d7-MeFOSE	66%		20-150%
	d9-EtFOSE	62%		20-150%
	13C2-4:2FTS	102%		20-150%
	13C2-6:2FTS	93%		20-150%
	13C2-8:2FTS	87%		20-150%
	13C3-HFPO-DA	83%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW07-0.2-1.0-022723		
Lab Sample ID:	JD60984-3A	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	85.4
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	4Q41829.D	1	03/09/23 17:09	AFL	03/08/23 08:30	F:OP95785	F:S4Q599
Run #2							

	Initial Weight	Final Volume
Run #1	4.97 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.00094	0.00059	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00047	0.00012	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00024	0.00012	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00024	0.00012	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00021	0.00024	0.00012	mg/kg	J
375-95-1	Perfluorononanoic acid	ND	0.00024	0.00014	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00024	0.00012	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00024	0.00016	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00024	0.00012	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00024	0.00012	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00024	0.00012	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00024	0.00012	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00024	0.00018	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00024	0.00019	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00024	0.00017	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.00066	0.00024	0.00012	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00024	0.00021	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00024	0.00017	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00024	0.00018	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.00094	0.00047	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.00094	0.00047	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.00094	0.00071	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00024	0.00012	mg/kg	
31506-32-8	MeFOSA	ND	0.00024	0.00016	mg/kg	
4151-50-2	EtFOSA	ND	0.00024	0.00012	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-MW07-0.2-1.0-022723		
Lab Sample ID:	JD60984-3A	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	85.4
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00024	0.00019	mg/kg	
2991-50-6	EtFOSAA	ND	0.00024	0.00023	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0024	0.0012	mg/kg	
1691-99-2	EtFOSE	ND	0.0024	0.0012	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.00094	0.00034	mg/kg	
919005-14-4	ADONA	ND	0.00094	0.00040	mg/kg	
377-73-1	PFMPA	ND	0.00047	0.00024	mg/kg	
863090-89-5	PFMBA	ND	0.00047	0.00024	mg/kg	
151772-58-6	NFDHA	ND	0.00047	0.00029	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.00094	0.00052	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.00094	0.00047	mg/kg	
113507-82-7	PFEESA	ND	0.00047	0.00024	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0012	0.00060	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0059	0.0014	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0059	0.0015	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	79%		20-150%
	13C5-PFPeA	75%		20-150%
	13C5-PFHxA	78%		20-150%
	13C4-PFHpA	76%		20-150%
	13C8-PFOA	77%		20-150%
	13C9-PFNA	73%		20-150%
	13C6-PFDA	82%		20-150%
	13C7-PFUnDA	81%		20-150%
	13C2-PFDoDA	76%		20-150%
	13C2-PFTeDA	76%		20-150%
	13C3-PFBS	77%		20-150%
	13C3-PFHxS	73%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-MW07-0.2-1.0-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-3A	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	85.4
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	78%		20-150%
	13C8-FOSA	77%		20-150%
	d3-MeFOSA	73%		20-150%
	d5-EtFOSA	66%		20-150%
	d3-MeFOSAA	87%		20-150%
	d5-EtFOSAA	92%		20-150%
	d7-MeFOSE	65%		20-150%
	d9-EtFOSE	64%		20-150%
	13C2-4:2FTS	95%		20-150%
	13C2-6:2FTS	89%		20-150%
	13C2-8:2FTS	83%		20-150%
	13C3-HFPO-DA	75%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW-05-0.0-0.2-022723	
Lab Sample ID:	JD60984-4A	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 73.5
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	4Q41832.D	1	03/09/23 17:51	AFL	03/08/23 08:30	F:OP95785	F:S4Q599
Run #2							

	Initial Weight	Final Volume
Run #1	5.00 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.00078	0.0011	0.00068	mg/kg	J
2706-90-3	Perfluoropentanoic acid	ND	0.00054	0.00014	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00027	0.00014	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00027	0.00014	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00074	0.00027	0.00014	mg/kg	
375-95-1	Perfluorononanoic acid	0.00021	0.00027	0.00016	mg/kg	J
335-76-2	Perfluorodecanoic acid	ND	0.00027	0.00014	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00027	0.00018	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00027	0.00014	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00027	0.00014	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00027	0.00014	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00027	0.00014	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00027	0.00021	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00027	0.00022	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00027	0.00020	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0028	0.00027	0.00014	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00027	0.00025	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00027	0.00019	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00027	0.00020	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0011	0.00054	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0011	0.00054	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0011	0.00082	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00027	0.00014	mg/kg	
31506-32-8	MeFOSA	ND	0.00027	0.00019	mg/kg	
4151-50-2	EtFOSA	ND	0.00027	0.00014	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-MW-05-0.0-0.2-022723		
Lab Sample ID:	JD60984-4A	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00027	0.00021	mg/kg	
2991-50-6	EtFOSAA	ND	0.00027	0.00027	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0027	0.0014	mg/kg	
1691-99-2	EtFOSE	ND	0.0027	0.0014	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0011	0.00039	mg/kg	
919005-14-4	ADONA	ND	0.0011	0.00046	mg/kg	
377-73-1	PFMPA	ND	0.00054	0.00027	mg/kg	
863090-89-5	PFMBA	ND	0.00054	0.00027	mg/kg	
151772-58-6	NFDHA	ND	0.00054	0.00033	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0011	0.00060	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0011	0.00054	mg/kg	
113507-82-7	PFEEESA	ND	0.00054	0.00027	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0014	0.00069	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0068	0.0016	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0068	0.0017	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	88%		20-150%
	13C5-PFPeA	82%		20-150%
	13C5-PFHxA	84%		20-150%
	13C4-PFHpA	80%		20-150%
	13C8-PFOA	81%		20-150%
	13C9-PFNA	81%		20-150%
	13C6-PFDA	86%		20-150%
	13C7-PFUnDA	89%		20-150%
	13C2-PFDoDA	87%		20-150%
	13C2-PFTeDA	87%		20-150%
	13C3-PFBS	86%		20-150%
	13C3-PFHxS	86%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW-05-0.0-0.2-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-4A	Date Received:	02/28/23
Matrix:	SO - Soil	Percent Solids:	73.5
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	82%		20-150%
	13C8-FOSA	84%		20-150%
	d3-MeFOSA	73%		20-150%
	d5-EtFOSA	70%		20-150%
	d3-MeFOSAA	95%		20-150%
	d5-EtFOSAA	93%		20-150%
	d7-MeFOSE	69%		20-150%
	d9-EtFOSE	66%		20-150%
	13C2-4:2FTS	105%		20-150%
	13C2-6:2FTS	106%		20-150%
	13C2-8:2FTS	83%		20-150%
	13C3-HFPO-DA	81%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW-05-0.2-1.0-022723	
Lab Sample ID:	JD60984-5A	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 78.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	4Q41833.D	1	03/09/23 18:05	AFL	03/08/23 08:30	F:OP95785	F:S4Q599
Run #2							

	Initial Weight	Final Volume
Run #1	4.98 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0010	0.00064	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00051	0.00013	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00025	0.00013	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00025	0.00013	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00050	0.00025	0.00013	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00025	0.00015	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00025	0.00013	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00025	0.00017	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00025	0.00013	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00025	0.00013	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00025	0.00013	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00025	0.00013	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00025	0.00020	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00025	0.00020	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00025	0.00018	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0025	0.00025	0.00013	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00025	0.00023	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00025	0.00018	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00025	0.00019	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0010	0.00051	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0010	0.00051	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0010	0.00076	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00025	0.00013	mg/kg	
31506-32-8	MeFOSA	ND	0.00025	0.00017	mg/kg	
4151-50-2	EtFOSA	ND	0.00025	0.00013	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-MW-05-0.2-1.0-022723		
Lab Sample ID:	JD60984-5A	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	78.8
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00025	0.00020	mg/kg	
2991-50-6	EtFOSAA	ND	0.00025	0.00025	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0025	0.0013	mg/kg	
1691-99-2	EtFOSE	ND	0.0025	0.0013	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0010	0.00037	mg/kg	
919005-14-4	ADONA	ND	0.0010	0.00043	mg/kg	
377-73-1	PFMPA	ND	0.00051	0.00025	mg/kg	
863090-89-5	PFMBA	ND	0.00051	0.00025	mg/kg	
151772-58-6	NFDHA	ND	0.00051	0.00031	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0010	0.00056	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0010	0.00051	mg/kg	
113507-82-7	PFEEESA	ND	0.00051	0.00025	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0013	0.00065	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0064	0.0015	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0064	0.0016	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	83%		20-150%
	13C5-PFPeA	78%		20-150%
	13C5-PFHxA	79%		20-150%
	13C4-PFHpA	77%		20-150%
	13C8-PFOA	78%		20-150%
	13C9-PFNA	73%		20-150%
	13C6-PFDA	83%		20-150%
	13C7-PFUnDA	82%		20-150%
	13C2-PFDoDA	84%		20-150%
	13C2-PFTeDA	77%		20-150%
	13C3-PFBS	83%		20-150%
	13C3-PFHxS	83%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: LR-MW-05-0.2-1.0-022723**Lab Sample ID:** JD60984-5A**Date Sampled:** 02/27/23**Matrix:** SO - Soil**Date Received:** 02/28/23**Method:** EPA DRAFT 1633 EPA 1633 DRAFT**Percent Solids:** 78.8**Project:** Lyndon Road Landfill

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	83%		20-150%
	13C8-FOSA	80%		20-150%
	d3-MeFOSA	67%		20-150%
	d5-EtFOSA	64%		20-150%
	d3-MeFOSAA	95%		20-150%
	d5-EtFOSAA	94%		20-150%
	d7-MeFOSE	65%		20-150%
	d9-EtFOSE	63%		20-150%
	13C2-4:2FTS	100%		20-150%
	13C2-6:2FTS	100%		20-150%
	13C2-8:2FTS	84%		20-150%
	13C3-HFPO-DA	78%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	DUP-022723	
Lab Sample ID:	JD60984-6A	
Matrix:	SO - Soil	Date Sampled: 02/27/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Date Received: 02/28/23
Project:	Lyndon Road Landfill	Percent Solids: 73.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	4Q41834.D	1	03/09/23 18:19	AFL	03/08/23 08:30	F:OP95785	F:S4Q599
Run #2							

	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0011	0.00068	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00054	0.00014	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00027	0.00014	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00027	0.00014	mg/kg	
335-67-1	Perfluorooctanoic acid	ND	0.00027	0.00014	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00027	0.00016	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00027	0.00014	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00027	0.00018	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00027	0.00014	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00027	0.00014	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00027	0.00014	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00027	0.00014	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00027	0.00021	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00027	0.00021	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00027	0.00020	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.00068	0.00027	0.00014	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00027	0.00024	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00027	0.00019	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00027	0.00020	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0011	0.00054	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0011	0.00054	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0011	0.00081	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00027	0.00014	mg/kg	
31506-32-8	MeFOSA	ND	0.00027	0.00018	mg/kg	
4151-50-2	EtFOSA	ND	0.00027	0.00014	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DUP-022723		
Lab Sample ID:	JD60984-6A	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	73.7
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00027	0.00021	mg/kg	
2991-50-6	EtFOSAA	ND	0.00027	0.00027	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0027	0.0014	mg/kg	
1691-99-2	EtFOSE	ND	0.0027	0.0014	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0011	0.00039	mg/kg	
919005-14-4	ADONA	ND	0.0011	0.00045	mg/kg	
377-73-1	PFMPA	ND	0.00054	0.00027	mg/kg	
863090-89-5	PFMBA	ND	0.00054	0.00027	mg/kg	
151772-58-6	NFDHA	ND	0.00054	0.00033	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0011	0.00059	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0011	0.00054	mg/kg	
113507-82-7	PFEESA	ND	0.00054	0.00027	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0014	0.00069	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0068	0.0016	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0068	0.0017	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	85%		20-150%
	13C5-PFPeA	82%		20-150%
	13C5-PFHxA	84%		20-150%
	13C4-PFHpA	83%		20-150%
	13C8-PFOA	80%		20-150%
	13C9-PFNA	84%		20-150%
	13C6-PFDA	84%		20-150%
	13C7-PFUnDA	95%		20-150%
	13C2-PFDoDA	84%		20-150%
	13C2-PFTeDA	84%		20-150%
	13C3-PFBS	86%		20-150%
	13C3-PFHxS	85%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	DUP-022723		
Lab Sample ID:	JD60984-6A	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	73.7
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	81%		20-150%
	13C8-FOSA	76%		20-150%
	d3-MeFOSA	64%		20-150%
	d5-EtFOSA	58%		20-150%
	d3-MeFOSAA	93%		20-150%
	d5-EtFOSAA	87%		20-150%
	d7-MeFOSE	63%		20-150%
	d9-EtFOSE	60%		20-150%
	13C2-4:2FTS	99%		20-150%
	13C2-6:2FTS	95%		20-150%
	13C2-8:2FTS	83%		20-150%
	13C3-HFPO-DA	80%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-EB-022723	Date Sampled:	02/27/23
Lab Sample ID:	JD60984-7	Date Received:	02/28/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	4Q41822.D	1	03/09/23 15:30	AFL	03/08/23 09:30	F:OP95792	F:S4Q599
Run #2							

	Initial Volume	Final Volume
Run #1	66.0 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.061	0.030	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.030	0.0076	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.015	0.0038	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.015	0.0038	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.015	0.0038	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.015	0.0046	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.015	0.0038	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.015	0.0045	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.015	0.0045	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.015	0.0064	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.015	0.0038	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.015	0.0076	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.015	0.0085	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.015	0.0076	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.015	0.0076	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.015	0.0076	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.015	0.0076	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.015	0.0076	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.015	0.0086	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.061	0.030	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.061	0.030	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.061	0.031	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.015	0.0076	ug/l	
31506-32-8	MeFOSA	ND	0.015	0.0076	ug/l	
4151-50-2	EtFOSA	ND	0.015	0.0076	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-EB-022723		
Lab Sample ID:	JD60984-7	Date Sampled:	02/27/23
Matrix:	AQ - Equipment Blank	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.015	0.0076	ug/l	
2991-50-6	EtFOSAA	ND	0.015	0.010	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.15	0.076	ug/l	
1691-99-2	EtFOSE	ND	0.15	0.076	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.061	0.015	ug/l	
919005-14-4	ADONA	ND	0.061	0.015	ug/l	
377-73-1	PFMPA	ND	0.030	0.0076	ug/l	
863090-89-5	PFMBA	ND	0.030	0.0086	ug/l	
151772-58-6	NFDHA	ND	0.030	0.0091	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.061	0.015	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.061	0.015	ug/l	
113507-82-7	PFEESA	ND	0.030	0.0076	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.076	0.038	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.38	0.076	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.38	0.076	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	98%		20-150%
	13C5-PFPeA	96%		20-150%
	13C5-PFHxA	93%		20-150%
	13C4-PFHpA	93%		20-150%
	13C8-PFOA	95%		20-150%
	13C9-PFNA	92%		20-150%
	13C6-PFDA	100%		20-150%
	13C7-PFUnDA	100%		20-150%
	13C2-PFDoDA	98%		20-150%
	13C2-PFTeDA	95%		20-150%
	13C3-PFBS	94%		20-150%
	13C3-PFHxS	96%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-EB-022723		
Lab Sample ID:	JD60984-7	Date Sampled:	02/27/23
Matrix:	AQ - Equipment Blank	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	98%		20-150%
	13C8-FOSA	88%		20-150%
	d3-MeFOSA	86%		20-150%
	d5-EtFOSA	85%		20-150%
	d3-MeFOSAA	101%		20-150%
	d5-EtFOSAA	99%		20-150%
	d7-MeFOSE	89%		20-150%
	d9-EtFOSE	90%		20-150%
	13C2-4:2FTS	122%		20-150%
	13C2-6:2FTS	128%		20-150%
	13C2-8:2FTS	108%		20-150%
	13C3-HFPO-DA	92%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW-07-22-24-022723	
Lab Sample ID:	JD60984-9A	Date Sampled: 02/27/23
Matrix:	SO - Soil	Date Received: 02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 96.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	4Q41835.D	1	03/09/23 18:33	AFL	03/08/23 08:30	F:OP95785	F:S4Q599
Run #2							

	Initial Weight	Final Volume
Run #1	4.97 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.00083	0.00052	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00042	0.00010	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00021	0.00010	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00021	0.00010	mg/kg	
335-67-1	Perfluorooctanoic acid	ND	0.00021	0.00010	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00021	0.00012	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00021	0.00010	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00021	0.00014	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00021	0.00010	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00021	0.00011	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00021	0.00010	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00021	0.00010	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00021	0.00016	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00021	0.00017	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00021	0.00015	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.00021	0.00010	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00021	0.00019	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00021	0.00015	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00021	0.00016	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.00083	0.00042	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.00083	0.00042	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.00083	0.00063	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00021	0.00010	mg/kg	
31506-32-8	MeFOSA	ND	0.00021	0.00014	mg/kg	
4151-50-2	EtFOSA	ND	0.00021	0.00011	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-MW-07-22-24-022723		
Lab Sample ID:	JD60984-9A	Date Sampled:	02/27/23
Matrix:	SO - Soil	Date Received:	02/28/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	96.4
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00021	0.00016	mg/kg	
2991-50-6	EtFOSAA	ND	0.00021	0.00021	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0021	0.0010	mg/kg	
1691-99-2	EtFOSE	ND	0.0021	0.0010	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.00083	0.00030	mg/kg	
919005-14-4	ADONA	ND	0.00083	0.00035	mg/kg	
377-73-1	PFMPA	ND	0.00042	0.00021	mg/kg	
863090-89-5	PFMBA	ND	0.00042	0.00021	mg/kg	
151772-58-6	NFDHA	ND	0.00042	0.00025	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.00083	0.00046	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.00083	0.00042	mg/kg	
113507-82-7	PFEESA	ND	0.00042	0.00021	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0010	0.00053	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0052	0.0012	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0052	0.0013	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	86%		20-150%
	13C5-PFPeA	81%		20-150%
	13C5-PFHxA	81%		20-150%
	13C4-PFHpA	82%		20-150%
	13C8-PFOA	81%		20-150%
	13C9-PFNA	79%		20-150%
	13C6-PFDA	81%		20-150%
	13C7-PFUnDA	86%		20-150%
	13C2-PFDoDA	75%		20-150%
	13C2-PFTeDA	66%		20-150%
	13C3-PFBS	77%		20-150%
	13C3-PFHxS	77%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: LR-MW-07-22-24-022723**Lab Sample ID:** JD60984-9A**Date Sampled:** 02/27/23**Matrix:** SO - Soil**Date Received:** 02/28/23**Method:** EPA DRAFT 1633 EPA 1633 DRAFT**Percent Solids:** 96.4**Project:** Lyndon Road Landfill

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	78%		20-150%
	13C8-FOSA	75%		20-150%
	d3-MeFOSA	61%		20-150%
	d5-EtFOSA	55%		20-150%
	d3-MeFOSAA	80%		20-150%
	d5-EtFOSAA	85%		20-150%
	d7-MeFOSE	64%		20-150%
	d9-EtFOSE	63%		20-150%
	13C2-4:2FTS	110%		20-150%
	13C2-6:2FTS	104%		20-150%
	13C2-8:2FTS	90%		20-150%
	13C3-HFPO-DA	82%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



SGS North America Inc. - Dayton

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 1 of 1 PM

FED-EX Tracking # 5844 7371 2214	Bottle Order Control # JD60984
SGS Code #	SGS Job # MM-022302-9

[illegible]

IR-40

JD60984: Chain of Custody

Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD60984

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL

Date / Time Received: 2/28/2023 10:30:00 AM

Delivery Method: FEDEX

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (3.9);

Cooler Temps (Corrected) °C: Cooler 1: (3.9);

Cooler Security
Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐
Cooler Temperature
Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation
Y or N N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☒ ☐ ☐
Sample Integrity - Documentation
Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐
Sample Integrity - Condition
Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions
Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒
Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)
Comments

1). Sample -4 ID on COC states "LR-MW-08-0.0-0.2-022723". ID on bottles state "LR-MW-05-0.0-0.2-022723". Collection Date & Time match.
2). Sample -5 ID on COC states "LR-MW-08-0.2-1.0-022723". ID on bottles state "LR-MW-05-0.2-1.0-022723". Collection Date & Time match.
3). Received "LR-MW07-22-24-022723" collected 2/27/23 @ 15:30 not originally on COC. Added as -9. Received same bottle profile as -3. Please confirm

JD60984: Chain of Custody

Page 2 of 3

Responded to by: Marie Meidhof

Response Date: 2/28/2023

- 1) Sample ID 4 should be LR-MW-05-0.0-0.2-022723
- 2) Sample ID for #5 should be LR-MW-05-0.2-1.0-022723
- 3) -9/-LR-MW-07-22-24-022723 should be analyzed for PFAS, percent solids, and 1,4-dioxane

JD60984: Chain of Custody
Page 3 of 3

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD61307

Sampling Date: 03/02/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 10



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD61307

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD61307-1	03/02/23	11:00 RB	03/02/23	SO	Soil	LR-MW05-06-08-030223
JD61307-2	03/02/23	15:00 RB	03/02/23	SO	Soil	LR-MW05-06-08-030223
* JD61307-2A	03/02/23	15:00 RB	03/02/23	SO	Soil	LR-MW05-06-08-030223
* JD61307-3	03/02/23	15:30 RB	03/02/23	AQ	Equipment Blank	LR-EB-030223
JD61307-4	03/02/23	15:30 RB	03/02/23	AQ	Trip Blank Soil	LR-TB-030223

* The following report applies to these samples only (14 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW05-06-08-030223	
Lab Sample ID:	JD61307-2A	Date Sampled: 03/02/23
Matrix:	SO - Soil	Date Received: 03/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 70.2
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15129.D	1	03/21/23 21:17	AFL	03/16/23 10:45	F:OP95917	F:S6Q229
Run #2							

	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0011	0.00071	mg/kg	
2706-90-3	Perfluoropentanoic acid	0.00032	0.00057	0.00014	mg/kg	J
307-24-4	Perfluorohexanoic acid	0.00016	0.00028	0.00014	mg/kg	J
375-85-9	Perfluoroheptanoic acid	0.00025	0.00028	0.00014	mg/kg	J
335-67-1	Perfluorooctanoic acid	0.0055	0.00028	0.00014	mg/kg	
375-95-1	Perfluorononanoic acid	0.00047	0.00028	0.00016	mg/kg	
335-76-2	Perfluorodecanoic acid	0.00061	0.00028	0.00014	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00028	0.00019	mg/kg	
307-55-1	Perfluorododecanoic acid	0.00015	0.00028	0.00014	mg/kg	J
72629-94-8	Perfluorotridecanoic acid	ND	0.00028	0.00014	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00028	0.00014	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00028	0.00014	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00028	0.00022	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	0.00032	0.00028	0.00023	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	0.00058	0.00028	0.00021	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0487	0.00028	0.00014	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00028	0.00026	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00028	0.00020	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00028	0.00021	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0011	0.00057	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0011	0.00057	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0011	0.00085	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	0.00073	0.00028	0.00014	mg/kg	
31506-32-8	MeFOSA	ND	0.00028	0.00019	mg/kg	
4151-50-2	EtFOSA	ND	0.00028	0.00014	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-MW05-06-08-030223		
Lab Sample ID:	JD61307-2A	Date Sampled:	03/02/23
Matrix:	SO - Soil	Date Received:	03/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	70.2
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00028	0.00022	mg/kg	
2991-50-6	EtFOSAA	0.0016	0.00028	0.00028	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0028	0.0014	mg/kg	
1691-99-2	EtFOSE	ND	0.0028	0.0014	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0011	0.00041	mg/kg	
919005-14-4	ADONA	ND	0.0011	0.00048	mg/kg	
377-73-1	PFMPA	ND	0.00057	0.00028	mg/kg	
863090-89-5	PFMBA	ND	0.00057	0.00028	mg/kg	
151772-58-6	NFDHA	ND	0.00057	0.00035	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0011	0.00062	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0011	0.00057	mg/kg	
113507-82-7	PFEESA	ND	0.00057	0.00028	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0014	0.00072	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0071	0.0016	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0071	0.0018	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	78%		20-150%
	13C5-PFPeA	76%		20-150%
	13C5-PFHxA	80%		20-150%
	13C4-PFHpA	80%		20-150%
	13C8-PFOA	78%		20-150%
	13C9-PFNA	77%		20-150%
	13C6-PFDA	86%		20-150%
	13C7-PFUnDA	87%		20-150%
	13C2-PFDoDA	85%		20-150%
	13C2-PFTeDA	82%		20-150%
	13C3-PFBS	76%		20-150%
	13C3-PFHxS	77%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: LR-MW05-06-08-030223**Lab Sample ID:** JD61307-2A**Date Sampled:** 03/02/23**Matrix:** SO - Soil**Date Received:** 03/02/23**Method:** EPA DRAFT 1633 EPA 1633 DRAFT**Percent Solids:** 70.2**Project:** Lyndon Road Landfill

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	67%		20-150%
	13C8-FOSA	81%		20-150%
	d3-MeFOSA	71%		20-150%
	d5-EtFOSA	61%		20-150%
	d3-MeFOSAA	88%		20-150%
	d5-EtFOSAA	104%		20-150%
	d7-MeFOSE	70%		20-150%
	d9-EtFOSE	64%		20-150%
	13C2-4:2FTS	85%		20-150%
	13C2-6:2FTS	83%		20-150%
	13C2-8:2FTS	66%		20-150%
	13C3-HFPO-DA	76%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-EB-030223		
Lab Sample ID:	JD61307-3	Date Sampled:	03/02/23
Matrix:	AQ - Equipment Blank	Date Received:	03/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15083.D	1	03/21/23 08:44	AFL	03/16/23 13:10	F:OP95925	F:S6Q228
Run #2							

	Initial Volume	Final Volume
Run #1	550 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0073	0.0036	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0036	0.00091	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00045	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00045	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00045	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00055	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00045	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00055	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00076	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00045	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00091	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0018	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00091	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00091	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00091	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0018	0.00091	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00091	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0018	0.0010	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0073	0.0036	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0073	0.0036	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0073	0.0037	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0018	0.00091	ug/l	
31506-32-8	MeFOSA	ND	0.0018	0.00091	ug/l	
4151-50-2	EtFOSA	ND	0.0018	0.00091	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-EB-030223		
Lab Sample ID:	JD61307-3	Date Sampled:	03/02/23
Matrix:	AQ - Equipment Blank	Date Received:	03/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
---------	----------	--------	----	-----	-------	---

PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0018	0.00091	ug/l	
2991-50-6	EtFOSAA	ND	0.0018	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.018	0.0091	ug/l	
1691-99-2	EtFOSE	ND	0.018	0.0091	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0073	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0073	0.0018	ug/l	
377-73-1	PFMPA	ND	0.0036	0.00091	ug/l	
863090-89-5	PFMBA	ND	0.0036	0.0010	ug/l	
151772-58-6	NFDHA	ND	0.0036	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0073	0.0018	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0073	0.0018	ug/l	
113507-82-7	PFEEA	ND	0.0036	0.00091	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0091	0.0045	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.045	0.0091	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.045	0.0091	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	107%		20-150%
	13C5-PFPeA	97%		20-150%
	13C5-PFHxA	96%		20-150%
	13C4-PFHpA	95%		20-150%
	13C8-PFOA	101%		20-150%
	13C9-PFNA	103%		20-150%
	13C6-PFDA	106%		20-150%
	13C7-PFUnDA	102%		20-150%
	13C2-PFDoDA	95%		20-150%
	13C2-PFTeDA	90%		20-150%
	13C3-PFBS	104%		20-150%
	13C3-PFHxS	100%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-EB-030223		
Lab Sample ID:	JD61307-3	Date Sampled:	03/02/23
Matrix:	AQ - Equipment Blank	Date Received:	03/02/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	107%		20-150%
	13C8-FOSA	94%		20-150%
	d3-MeFOSA	76%		20-150%
	d5-EtFOSA	85%		20-150%
	d3-MeFOSAA	99%		20-150%
	d5-EtFOSAA	91%		20-150%
	d7-MeFOSE	92%		20-150%
	d9-EtFOSE	91%		20-150%
	13C2-4:2FTS	118%		20-150%
	13C2-6:2FTS	119%		20-150%
	13C2-8:2FTS	106%		20-150%
	13C3-HFPO-DA	91%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



SO
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CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

BW-022323-117
Page 1 of 1

JD61307

EHSA-QAC-0023-04-FORM-Standard COC

Client / Reporting Information		Project Information		Requested Analysis		Matrix Codes														
Company Name: Ramboll	Project Name: Lyndon Road Landfill	Billing Information (If different from Report to)		Requested Analysis		Matrix Codes														
Street Address: 333 W. Washington St	Street: Lyndon Rd	Company Name		Requested Analysis		Matrix Codes														
City: Syracuse NY	City: Fairport NY	State		Requested Analysis		Matrix Codes														
Project Contact: Robert Trent Ramboll	Project #: 1940102911D	Street Address		Requested Analysis		Matrix Codes														
Phone #: 585 747 7650	Client Purchase Order #	City		Requested Analysis		Matrix Codes														
Sampler(s) Name(s): Robert Trent	Phone #	State		Requested Analysis		Matrix Codes														
Collection		Number of preserved Bottles		pH Check (Lab Use Only)		LAB USE ONLY														
SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Obs (Y) Comp (C)	Source Characterized (Y/N)	Matrix	# of bottles	ICI	MeOH	HNO ₃	HSO ₄	NO ₃	DI Water	MeOH	MeOH	ENCORE	LAB USE ONLY	
1	LR-MW05-06-08-030223		3/2/23	1100	RB	G	N	SO	5											803
2	LR-MW05-06-08-030223		3/2/23	1500	RB	C	N	SO	4											14RB
3	LR-EB-030223		3/2/23	1530	RB	C	N	EB	3											4091
4	LR-TB-030223		3/2/23	0900	RB	C	N	TB	3											V548
				1630																
Turn Around Time (Business Days)		Deliverable		Comments / Special Instructions																
Approved By (BQB PM) / Date: ☒ 10 Business Days ☐ 5 Business Days ☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day ☐ Other: _____ All data available via Lablink		☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ NJ Reduced (Level 3) ☐ Full Tier I (Level 4) ☐ Commercial "C" ☐ NJ DKQP ☐ NYASP Category A ☒ NYASP Category B ☐ MA MCP Criteria ☐ CT RCP Criteria ☐ State Forms ☒ EDD Format ☐ DOD-QSMS ☐ DOD-QSMS		Custody Seal 08915 Di'venil place in R-67 & 13x9 http://www.sgs.com/en/terms-and-conditions																
Sample Custody must be documented below each time samples change possession, including courier delivery.		Custody Seal #		Therm ID																
Relinquished By: Robert Trent	Date / Time: 3/2/2023 1730	Received By:	Date / Time:	Relinquished By:	Date / Time:															
Relinquished By:	Date / Time:	Received By:	Date / Time:	Relinquished By:	Date / Time:															
Relinquished By:	Date / Time:	Received By:	Date / Time:	Relinquished By:	Date / Time:															
Intact ☐ Not Intact ☐ Absent ☐		Therm ID: ☐ On Ice ☒ Cooler Temp: 3.9°C		See Sample Receipt Summary																

JD61307: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: jd61307 **Client:** Ramboll **Project:** Lyndon Road
Date / Time Received: 3/3/2023 **Delivery Method:** FedEx **Airbill #s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (3.9);

Cooler Temps (Corrected) °C: Cooler 1: (3.9);

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>
1. Custody Seals Present:	☒ ☐	3. COC Present:	☒ ☐
2. Custody Seals Intact:	☒ ☐	4. Smpl Dates/Time OK	☒ ☐

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	☒ ☐
2. Cooler temp verification:	<u>IR-GUN</u>
3. Cooler media:	<u>Ice (Bag)</u>
4. No. Coolers:	<u>1</u>

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	☒		☐	☐
2. Trip Blank listed on COC:	☒		☐	☐
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☐		☐	☒

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	<u>Intact</u>		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒

Test Strip Lot #s:	pH 1-12: <u>231619</u>	pH 12+: <u>203117A</u>	Other: (Specify) _____
--------------------	------------------------	------------------------	------------------------

Comments

SM089-03
Rev. Date 12/7/17

JD61307: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD61586

Sampling Dates: 03/07/23 - 03/08/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 31



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD61586

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD61586-1	03/07/23	12:15 BH	03/09/23	AQ	Equipment Blank	LR-EB-01-030723
JD61586-2	03/08/23	12:05 BH	03/09/23	AQ	Equipment Blank	LR-EB-01-030823
JD61586-3	03/08/23	12:20 BH	03/09/23	AQ	Equipment Blank	LR-EB-02-030823
* JD61586-4	03/08/23	12:00 BH	03/09/23	SO	Soil	LR-TT06-04-05-030823
JD61586-4A	03/08/23	12:00 BH	03/09/23	SO	Soil	LR-TT06-04-05-030823
* JD61586-5	03/08/23	12:10 BH	03/09/23	SO	Soil	LR-TT06-0.2-1.0-030823
JD61586-5A	03/08/23	12:10 BH	03/09/23	SO	Soil	LR-TT06-0.2-1.0-030823
JD61586-5B	03/08/23	12:10 BH	03/09/23	SO	Soil	LR-TT06-0.2-1.0-030823
* JD61586-5C	03/08/23	12:10 BH	03/09/23	SO	Soil	LR-TT06-0.2-1.0-030823
* JD61586-6	03/08/23	10:30 BH	03/09/23	SO	Soil	LR-TT04-DRUM-030823
JD61586-6A	03/08/23	10:30 BH	03/09/23	SO	Soil	LR-TT04-DRUM-030823
* JD61586-7	03/08/23	11:00 BH	03/09/23	SO	Soil	LR-TT04-0.2-1.0-030823

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD61586

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD61586-7A	03/08/23	11:00 BH	03/09/23	SO	Soil	LR-TT04-0.2-1.0-030823
JD61586-7B	03/08/23	11:00 BH	03/09/23	SO	Soil	LR-TT04-0.2-1.0-030823
* JD61586-7C	03/08/23	11:00 BH	03/09/23	SO	Soil	LR-TT04-0.2-1.0-030823
* JD61586-8	03/08/23	09:30 BH	03/09/23	SO	Soil	LR-TT04-02-03-030823
JD61586-8A	03/08/23	09:30 BH	03/09/23	SO	Soil	LR-TT04-02-03-030823

* The following report applies to these samples only (7 day TAT).

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT06-04-05-030823		
Lab Sample ID:	JD61586-4	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8260D SW846 1311	Percent Solids:	80.8
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D126050.D	5	03/21/23 07:00	PS	03/13/23 11:00	GP45583	V4D5593
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform ^a	0.0055	D022	6.0	0.0050	0.0025	mg/l	B
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	98%		64-135%
2037-26-5	Toluene-D8	100%		76-117%
460-00-4	4-Bromofluorobenzene	96%		72-122%

(a) Indicates analyte found in associated leachate blank.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT06-04-05-030823	
Lab Sample ID:	JD61586-4	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8270E SW846 3546	Percent Solids: 80.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M187724.D	2	03/13/23 14:26	KH	03/11/23 10:15	OP45154	EM8114
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	0.081	0.053	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	78%		10-109%		
321-60-8	2-Fluorobiphenyl	78%		11-109%		
1718-51-0	Terphenyl-d14	82%		10-120%		

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT06-04-05-030823		
Lab Sample ID:	JD61586-4	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8270E SW846 3510C	Percent Solids:	80.8
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR851.D	1	03/17/23 13:10	JY	03/16/23 09:02	OP45222	ECR35
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		10-73%
4165-62-2	Phenol-d5	35%		10-64%
118-79-6	2,4,6-Tribromophenol	91%		31-130%
4165-60-0	Nitrobenzene-d5	78%		28-126%
321-60-8	2-Fluorobiphenyl	68%		26-114%
1718-51-0	Terphenyl-d14	77%		16-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT06-04-05-030823	
Lab Sample ID:	JD61586-4	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8151A SW846 3510C	Percent Solids: 80.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4166.D	1	03/18/23 02:01	RK	03/16/23 08:35	OP45223	G9G225
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Herbicide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	0.0016	D016	10	0.0033	0.00098	mg/l	J
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0010	0.00020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	51%		13-169%
19719-28-9	2,4-DCAA	72%		13-169%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT06-04-05-030823	
Lab Sample ID:	JD61586-4	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8081B SW846 3510C	Percent Solids: 80.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89421.D	1	03/16/23 23:56	RK	03/16/23 10:20	OP45224	G6G3238
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Pesticide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.000067	0.000040	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0033	0.0014	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.000067	0.000040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.000067	0.000030	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.000067	0.000040	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00013	0.000045	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0017	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	53%		30-137%
877-09-8	Tetrachloro-m-xylene	64%		30-137%
2051-24-3	Decachlorobiphenyl	53%		10-137%
2051-24-3	Decachlorobiphenyl	75%		10-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT06-04-05-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-4	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	80.8
Project:	Lyndon Road Landfill		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Barium	1.2	D005	100	0.20	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Cadmium	0.017	D006	1.0	0.0040	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Lead	0.67	D008	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	03/14/23	03/16/23	LM	SW846 7470A ¹ SW846 7470A ⁴
Selenium	< 0.10	D010	1.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³

(1) Instrument QC Batch: MA53859

(2) Instrument QC Batch: MA53865

(3) Prep QC Batch: MP38397

(4) Prep QC Batch: MP38426

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 7/1/11)

Report of Analysis

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Client Sample ID:	LR-TT06-04-05-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-4	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	80.8
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	80.8		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
pH ^a	7.64		su	1	03/14/23 17:21	MM	SW846 9045D

(a) Temp of pH Reading: 12.9 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT06-0.2-1.0-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-5	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	81.8
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.8		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
Total Organic Carbon	48500	120	mg/kg	1	03/14/23 11:49	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

Report of Analysis

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Client Sample ID: LR-TT06-0.2-1.0-030823**Lab Sample ID:** JD61586-5C**Matrix:** SO - Soil**Project:** Lyndon Road Landfill**Date Sampled:** 03/08/23**Date Received:** 03/09/23**Percent Solids:** 81.8**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.32		su	1	03/21/23 18:18	DB	SW846 9045D

(a) Temp of pH Reading: 21.2 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-030823		
Lab Sample ID:	JD61586-6	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8260D SW846 1311	Percent Solids:	73.4
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D126051.D	5	03/21/23 08:43	PS	03/13/23 11:00	GP45583	V4D5593
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform ^a	0.0042	D022	6.0	0.0050	0.0025	mg/l	JB
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	100%		64-135%
2037-26-5	Toluene-D8	100%		76-117%
460-00-4	4-Bromofluorobenzene	96%		72-122%

(a) Indicates analyte found in associated leachate blank.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-030823	
Lab Sample ID:	JD61586-6	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8270E SW846 3546	Percent Solids: 73.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M187726.D	5	03/13/23 15:09	KH	03/11/23 10:15	OP45154	EM8114
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	0.22	0.15	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	55%		10-109%		
321-60-8	2-Fluorobiphenyl	55%		11-109%		
1718-51-0	Terphenyl-d14	59%		10-120%		

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-030823		
Lab Sample ID:	JD61586-6	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8270E SW846 3510C	Percent Solids:	73.4
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR852.D	1	03/17/23 13:28	JY	03/16/23 09:02	OP45222	ECR35
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		10-73%
4165-62-2	Phenol-d5	33%		10-64%
118-79-6	2,4,6-Tribromophenol	88%		31-130%
4165-60-0	Nitrobenzene-d5	83%		28-126%
321-60-8	2-Fluorobiphenyl	75%		26-114%
1718-51-0	Terphenyl-d14	78%		16-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-030823	
Lab Sample ID:	JD61586-6	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8151A SW846 3510C	Percent Solids: 73.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4167.D	1	03/18/23 02:22	RK	03/16/23 08:35	OP45223	G9G225
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Herbicide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.0033	0.00098	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0010	0.00020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	14%		13-169%
19719-28-9	2,4-DCAA	22%		13-169%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-030823	
Lab Sample ID:	JD61586-6	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8081B SW846 3510C	Percent Solids: 73.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89422.D	1	03/17/23 00:14	RK	03/16/23 10:20	OP45224	G6G3238
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Pesticide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.000067	0.000040	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0033	0.0014	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.000067	0.000040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.000067	0.000030	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.000067	0.000040	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00013	0.000045	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0017	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		30-137%
877-09-8	Tetrachloro-m-xylene	81%		30-137%
2051-24-3	Decachlorobiphenyl	53%		10-137%
2051-24-3	Decachlorobiphenyl	70%		10-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-6	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	73.4
Project:	Lyndon Road Landfill		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Barium	< 0.20	D005	100	0.20	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Cadmium	< 0.0040	D006	1.0	0.0040	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Lead	< 0.10	D008	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	03/14/23	03/16/23	LM	SW846 7470A ¹ SW846 7470A ⁴
Selenium	< 0.10	D010	1.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³

(1) Instrument QC Batch: MA53859

(2) Instrument QC Batch: MA53865

(3) Prep QC Batch: MP38397

(4) Prep QC Batch: MP38426

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 7/1/11)

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-6	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	73.4
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	73.4		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
pH ^a	7.65		su	1	03/14/23 17:23	MM	SW846 9045D

(a) Temp of pH Reading: 13.4 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT04-0.2-1.0-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-7	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	75.7
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	75.7		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
Total Organic Carbon	24200	130	mg/kg	1	03/13/23 14:52	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT04-0.2-1.0-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-7C	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	75.7
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.57		su	1	03/17/23 22:53	MM	SW846 9045D

(a) Temp of pH Reading: 21.3 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT04-02-03-030823		
Lab Sample ID:	JD61586-8	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8260D SW846 1311	Percent Solids:	84.6
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F4046.D	5	03/21/23 20:57	NW	03/13/23 11:00	GP45583	V1F133
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK) ^a	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform ^b	0.0041	D022	6.0	0.0050	0.0025	mg/l	JB
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	105%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	100%		72-122%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Indicates analyte found in associated leachate blank.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-02-03-030823	
Lab Sample ID:	JD61586-8	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8270E SW846 3546	Percent Solids: 84.6
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M187727.D	5	03/13/23 15:31	KH	03/11/23 10:15	OP45154	EM8114
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	0.19	0.13	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	52%		10-109%		
321-60-8	2-Fluorobiphenyl	51%		11-109%		
1718-51-0	Terphenyl-d14	55%		10-120%		

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-02-03-030823		
Lab Sample ID:	JD61586-8	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8270E SW846 3510C	Percent Solids:	84.6
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR853.D	1	03/17/23 13:45	JY	03/16/23 09:02	OP45222	ECR35
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		10-73%
4165-62-2	Phenol-d5	32%		10-64%
118-79-6	2,4,6-Tribromophenol	81%		31-130%
4165-60-0	Nitrobenzene-d5	75%		28-126%
321-60-8	2-Fluorobiphenyl	67%		26-114%
1718-51-0	Terphenyl-d14	74%		16-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-02-03-030823	
Lab Sample ID:	JD61586-8	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8151A SW846 3510C	Percent Solids: 84.6
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4168.D	1	03/18/23 02:44	RK	03/16/23 08:35	OP45223	G9G225
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Herbicide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	0.0018	D016	10	0.0033	0.00098	mg/l	J
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0010	0.00020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	63%		13-169%
19719-28-9	2,4-DCAA	91%		13-169%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-02-03-030823	
Lab Sample ID:	JD61586-8	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8081B SW846 3510C	Percent Solids: 84.6
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89423.D	1	03/17/23 00:32	RK	03/16/23 10:20	OP45224	G6G3238
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Pesticide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.000067	0.000040	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0033	0.0014	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.000067	0.000040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.000067	0.000030	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.000067	0.000040	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00013	0.000045	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0017	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		30-137%
877-09-8	Tetrachloro-m-xylene	80%		30-137%
2051-24-3	Decachlorobiphenyl	62%		10-137%
2051-24-3	Decachlorobiphenyl	87%		10-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-02-03-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-8	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	84.6
Project:	Lyndon Road Landfill		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Barium	0.77	D005	100	0.20	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Cadmium	< 0.0040	D006	1.0	0.0040	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Lead	0.11	D008	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	03/14/23	03/16/23	LM	SW846 7470A ¹ SW846 7470A ⁴
Selenium	< 0.10	D010	1.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³

(1) Instrument QC Batch: MA53859

(2) Instrument QC Batch: MA53865

(3) Prep QC Batch: MP38397

(4) Prep QC Batch: MP38426

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 7/1/11)

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-02-03-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-8	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	84.6
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.6		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
pH ^a	7.93		su	1	03/14/23 17:25	MM	SW846 9045D

(a) Temp of pH Reading: 13.2 Deg. C

RL = Reporting Limit



5894-7371-118

Page 1 of 1

Bottle Order Control # 17m-03123-153	SGS Quote # JD61586
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[illegible]

3. $\kappa \omega$

JD61586: Chain of Custody

Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD61586

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - TEST TRENC

Date / Time Received: 3/9/2023 10:00:00 AM

Delivery Method: FEDEX

Airbill #'s:
Cooler Temps (Raw Measured) °C: Cooler 1: (1.3);

Cooler Temps (Corrected) °C: Cooler 1: (1.3);

Cooler Security
Y or N
Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | ☒ | ☐ | 3. COC Present: | ☒ | ☐ |
| 2. Custody Seals Intact: | ☒ | ☐ | 4. Smpl Dates/Time OK | ☒ | ☐ |

Cooler Temperature
Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | ☒ | ☐ |
| 2. Cooler temp verification: | | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation
Y or N
N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | ☐ | ☐ | ☒ |
| 2. Trip Blank listed on COC: | ☐ | ☐ | ☒ |
| 3. Samples preserved properly: | ☒ | ☐ | |
| 4. VOCs headspace free: | ☐ | ☐ | ☒ |

Sample Integrity - Documentation
Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | ☒ | ☐ |
| 2. Container labeling complete: | ☒ | ☐ |
| 3. Sample container label / COC agree: | ☒ | ☐ |

Sample Integrity - Condition
Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | ☒ | ☐ |
| 2. All containers accounted for: | ☒ | ☐ |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions
Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | ☒ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☒ | |
| 3. Sufficient volume recvd for analysis: | ☒ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☒ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☒ |

Test Strip Lot #s:

Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD61586: Chain of Custody

Page 2 of 3

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Requested Date:	3/14/2023	Received Date:	3/9/2023
Account Name:	Ramboll Americas	Due Date:	3/21/2023
Project Description:	Lyndon Road Landfill	Deliverable:	NYASPB
C/O Initiated By:	MARIE MEI	TAT (Days):	7
	PM: MM		

Sample #: JD61586-5
Client ID: LR-TT06-0.2-1.0-030823
Change: Add PHTEMP
Dept:
TAT: 7

Sample #: JD61586-7
Client ID: LR-TT04-0-2-1-0-030823
Change: Add PHTEMP
Dept:
TAT: 7

Above Changes Per: 3/14/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD61586

Sampling Dates: 03/07/23 - 03/08/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD61586

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

* JD61586-1	03/07/23	12:15 BH	03/09/23	AQ	Equipment Blank	LR-EB-01-030723
* JD61586-2	03/08/23	12:05 BH	03/09/23	AQ	Equipment Blank	LR-EB-01-030823
* JD61586-3	03/08/23	12:20 BH	03/09/23	AQ	Equipment Blank	LR-EB-02-030823
JD61586-4	03/08/23	12:00 BH	03/09/23	SO	Soil	LR-TT06-04-05-030823
* JD61586-4A	03/08/23	12:00 BH	03/09/23	SO	Soil	LR-TT06-04-05-030823
JD61586-5	03/08/23	12:10 BH	03/09/23	SO	Soil	LR-TT06-0.2-1.0-030823
* JD61586-5A	03/08/23	12:10 BH	03/09/23	SO	Soil	LR-TT06-0.2-1.0-030823
* JD61586-5B	03/08/23	12:10 BH	03/09/23	SO	Soil	LR-TT06-0.2-1.0-030823
JD61586-5C	03/08/23	12:10 BH	03/09/23	SO	Soil	LR-TT06-0.2-1.0-030823
JD61586-6	03/08/23	10:30 BH	03/09/23	SO	Soil	LR-TT04-DRUM-030823
* JD61586-6A	03/08/23	10:30 BH	03/09/23	SO	Soil	LR-TT04-DRUM-030823
JD61586-7	03/08/23	11:00 BH	03/09/23	SO	Soil	LR-TT04-0.2-1.0-030823

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD61586

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
* JD61586-7A	03/08/23	11:00 BH	03/09/23	SO	Soil	LR-TT04-0.2-1.0-030823
* JD61586-7B	03/08/23	11:00 BH	03/09/23	SO	Soil	LR-TT04-0.2-1.0-030823
JD61586-7C	03/08/23	11:00 BH	03/09/23	SO	Soil	LR-TT04-0.2-1.0-030823
JD61586-8	03/08/23	09:30 BH	03/09/23	SO	Soil	LR-TT04-02-03-030823
* JD61586-8A	03/08/23	09:30 BH	03/09/23	SO	Soil	LR-TT04-02-03-030823

* The following report applies to these samples only (14 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-EB-01-030723	
Lab Sample ID:	JD61586-1	Date Sampled: 03/07/23
Matrix:	AQ - Equipment Blank	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15213.D	1	03/22/23 22:42	AFL	03/20/23 09:00	F:OP95969	F:S6Q230
Run #2							

	Initial Volume	Final Volume
Run #1	570 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0070	0.0035	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0035	0.00088	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00044	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00044	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00044	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00054	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00044	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00053	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00053	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00074	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00044	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00088	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0018	0.00098	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00088	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00088	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00088	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0018	0.00088	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00088	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0018	0.0010	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0070	0.0035	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0070	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0070	0.0036	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0018	0.00088	ug/l	
31506-32-8	MeFOSA	ND	0.0018	0.00088	ug/l	
4151-50-2	EtFOSA	ND	0.0018	0.00088	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-EB-01-030723		
Lab Sample ID:	JD61586-1	Date Sampled:	03/07/23
Matrix:	AQ - Equipment Blank	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0018	0.00088	ug/l	
2991-50-6	EtFOSAA	ND	0.0018	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.018	0.0088	ug/l	
1691-99-2	EtFOSE	ND	0.018	0.0088	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0070	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0070	0.0018	ug/l	
377-73-1	PFMPA	ND	0.0035	0.00088	ug/l	
863090-89-5	PFMBA	ND	0.0035	0.0010	ug/l	
151772-58-6	NFDHA	ND	0.0035	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0070	0.0018	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0070	0.0018	ug/l	
113507-82-7	PFEEA	ND	0.0035	0.00088	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0088	0.0044	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.044	0.0088	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.044	0.0088	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	108%		20-150%
	13C5-PFPeA	106%		20-150%
	13C5-PFHxA	106%		20-150%
	13C4-PFHpA	110%		20-150%
	13C8-PFOA	101%		20-150%
	13C9-PFNA	107%		20-150%
	13C6-PFDA	96%		20-150%
	13C7-PFUnDA	99%		20-150%
	13C2-PFDoDA	93%		20-150%
	13C2-PFTeDA	74%		20-150%
	13C3-PFBS	101%		20-150%
	13C3-PFHxS	101%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-EB-01-030723		
Lab Sample ID:	JD61586-1	Date Sampled:	03/07/23
Matrix:	AQ - Equipment Blank	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	96%		20-150%
	13C8-FOSA	93%		20-150%
	d3-MeFOSA	70%		20-150%
	d5-EtFOSA	76%		20-150%
	d3-MeFOSAA	102%		20-150%
	d5-EtFOSAA	91%		20-150%
	d7-MeFOSE	81%		20-150%
	d9-EtFOSE	78%		20-150%
	13C2-4:2FTS	120%		20-150%
	13C2-6:2FTS	117%		20-150%
	13C2-8:2FTS	111%		20-150%
	13C3-HFPO-DA	106%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-EB-01-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-2	Date Received:	03/09/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15214.D	1	03/22/23 22:56	AFL	03/20/23 09:00	F:OP95969	F:S6Q230
Run #2							

	Initial Volume	Final Volume
Run #1	570 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0070	0.0035	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0035	0.00088	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00044	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00044	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00044	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00054	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00044	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00053	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00053	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00074	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00044	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00088	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0018	0.00098	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00088	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00088	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00088	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0018	0.00088	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00088	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0018	0.0010	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0070	0.0035	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0070	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0070	0.0036	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0018	0.00088	ug/l	
31506-32-8	MeFOSA	ND	0.0018	0.00088	ug/l	
4151-50-2	EtFOSA	ND	0.0018	0.00088	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-EB-01-030823		
Lab Sample ID:	JD61586-2	Date Sampled:	03/08/23
Matrix:	AQ - Equipment Blank	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0018	0.00088	ug/l	
2991-50-6	EtFOSAA	ND	0.0018	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.018	0.0088	ug/l	
1691-99-2	EtFOSE	ND	0.018	0.0088	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0070	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0070	0.0018	ug/l	
377-73-1	PFMPA	ND	0.0035	0.00088	ug/l	
863090-89-5	PFMBA	ND	0.0035	0.0010	ug/l	
151772-58-6	NFDHA	ND	0.0035	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0070	0.0018	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0070	0.0018	ug/l	
113507-82-7	PFEEA	ND	0.0035	0.00088	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0088	0.0044	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.044	0.0088	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.044	0.0088	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	103%		20-150%
	13C5-PFPeA	102%		20-150%
	13C5-PFHxA	103%		20-150%
	13C4-PFHpA	104%		20-150%
	13C8-PFOA	109%		20-150%
	13C9-PFNA	102%		20-150%
	13C6-PFDA	97%		20-150%
	13C7-PFUnDA	100%		20-150%
	13C2-PFDoDA	98%		20-150%
	13C2-PFTeDA	95%		20-150%
	13C3-PFBS	100%		20-150%
	13C3-PFHxS	100%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-EB-01-030823		
Lab Sample ID:	JD61586-2	Date Sampled:	03/08/23
Matrix:	AQ - Equipment Blank	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	105%		20-150%
	13C8-FOSA	103%		20-150%
	d3-MeFOSA	86%		20-150%
	d5-EtFOSA	94%		20-150%
	d3-MeFOSAA	108%		20-150%
	d5-EtFOSAA	105%		20-150%
	d7-MeFOSE	105%		20-150%
	d9-EtFOSE	103%		20-150%
	13C2-4:2FTS	126%		20-150%
	13C2-6:2FTS	134%		20-150%
	13C2-8:2FTS	105%		20-150%
	13C3-HFPO-DA	102%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-EB-02-030823	Date Sampled:	03/08/23
Lab Sample ID:	JD61586-3	Date Received:	03/09/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15215.D	1	03/22/23 23:10	AFL	03/20/23 09:00	F:OP95969	F:S6Q230
Run #2							

Run #	Initial Volume	Final Volume
Run #1	570 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0070	0.0035	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0035	0.00088	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00044	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00044	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00044	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00054	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00044	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00053	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00053	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00074	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00044	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00088	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0018	0.00098	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00088	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00088	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00088	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0018	0.00088	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00088	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0018	0.0010	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0070	0.0035	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0070	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0070	0.0036	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0018	0.00088	ug/l	
31506-32-8	MeFOSA	ND	0.0018	0.00088	ug/l	
4151-50-2	EtFOSA	ND	0.0018	0.00088	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-EB-02-030823		
Lab Sample ID:	JD61586-3	Date Sampled:	03/08/23
Matrix:	AQ - Equipment Blank	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0018	0.00088	ug/l	
2991-50-6	EtFOSAA	ND	0.0018	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.018	0.0088	ug/l	
1691-99-2	EtFOSE	ND	0.018	0.0088	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0070	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0070	0.0018	ug/l	
377-73-1	PFMPA	ND	0.0035	0.00088	ug/l	
863090-89-5	PFMBA	ND	0.0035	0.0010	ug/l	
151772-58-6	NFDHA	ND	0.0035	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0070	0.0018	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0070	0.0018	ug/l	
113507-82-7	PFEEESA	ND	0.0035	0.00088	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0088	0.0044	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.044	0.0088	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.044	0.0088	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	107%		20-150%
	13C5-PFPeA	101%		20-150%
	13C5-PFHxA	100%		20-150%
	13C4-PFHpA	101%		20-150%
	13C8-PFOA	104%		20-150%
	13C9-PFNA	95%		20-150%
	13C6-PFDA	87%		20-150%
	13C7-PFUnDA	91%		20-150%
	13C2-PFDoDA	86%		20-150%
	13C2-PFTeDA	55%		20-150%
	13C3-PFBS	99%		20-150%
	13C3-PFHxS	96%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-EB-02-030823		
Lab Sample ID:	JD61586-3	Date Sampled:	03/08/23
Matrix:	AQ - Equipment Blank	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	86%		20-150%
	13C8-FOSA	87%		20-150%
	d3-MeFOSA	80%		20-150%
	d5-EtFOSA	85%		20-150%
	d3-MeFOSAA	87%		20-150%
	d5-EtFOSAA	93%		20-150%
	d7-MeFOSE	91%		20-150%
	d9-EtFOSE	87%		20-150%
	13C2-4:2FTS	118%		20-150%
	13C2-6:2FTS	116%		20-150%
	13C2-8:2FTS	96%		20-150%
	13C3-HFPO-DA	105%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT06-04-05-030823	
Lab Sample ID:	JD61586-4A	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 80.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15251.D	1	03/23/23 07:33	AFL	03/20/23 10:45	F:OP95963	F:S6Q230
Run #2							

	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.00099	0.00062	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00049	0.00012	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00025	0.00012	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00025	0.00012	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00020	0.00025	0.00012	mg/kg	J
375-95-1	Perfluorononanoic acid	ND	0.00025	0.00014	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00025	0.00012	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00025	0.00016	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00025	0.00012	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00025	0.00013	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00025	0.00012	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00025	0.00012	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00025	0.00019	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00025	0.00020	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00025	0.00018	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0014	0.00025	0.00012	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00025	0.00022	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00025	0.00018	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00025	0.00018	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.00099	0.00049	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.00099	0.00049	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.00099	0.00074	mg/kg	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00025	0.00012	mg/kg	
31506-32-8	MeFOSA	ND	0.00025	0.00017	mg/kg	
4151-50-2	EtFOSA	ND	0.00025	0.00012	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT06-04-05-030823		
Lab Sample ID:	JD61586-4A	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	80.8
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00025	0.00019	mg/kg	
2991-50-6	EtFOSAA	ND	0.00025	0.00024	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0025	0.0012	mg/kg	
1691-99-2	EtFOSE	ND	0.0025	0.0012	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.00099	0.00036	mg/kg	
919005-14-4	ADONA	ND	0.00099	0.00041	mg/kg	
377-73-1	PFMPA	ND	0.00049	0.00025	mg/kg	
863090-89-5	PFMBA	ND	0.00049	0.00025	mg/kg	
151772-58-6	NFDHA	ND	0.00049	0.00030	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.00099	0.00054	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.00099	0.00049	mg/kg	
113507-82-7	PFEEESA	ND	0.00049	0.00025	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0012	0.00063	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0062	0.0014	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0062	0.0016	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	85%		20-150%
	13C5-PFPeA	86%		20-150%
	13C5-PFHxA	87%		20-150%
	13C4-PFHpA	88%		20-150%
	13C8-PFOA	85%		20-150%
	13C9-PFNA	81%		20-150%
	13C6-PFDA	86%		20-150%
	13C7-PFUnDA	92%		20-150%
	13C2-PFDoDA	85%		20-150%
	13C2-PFTeDA	79%		20-150%
	13C3-PFBS	82%		20-150%
	13C3-PFHxS	83%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT06-04-05-030823		
Lab Sample ID:	JD61586-4A	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	80.8
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	80%		20-150%
	13C8-FOSA	87%		20-150%
	d3-MeFOSA	78%		20-150%
	d5-EtFOSA	74%		20-150%
	d3-MeFOSAA	88%		20-150%
	d5-EtFOSAA	90%		20-150%
	d7-MeFOSE	71%		20-150%
	d9-EtFOSE	69%		20-150%
	13C2-4:2FTS	96%		20-150%
	13C2-6:2FTS	96%		20-150%
	13C2-8:2FTS	92%		20-150%
	13C3-HFPO-DA	87%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT06-0.2-1.0-030823	
Lab Sample ID:	JD61586-5A	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15252.D	1	03/23/23 07:47	AFL	03/20/23 10:45	F:OP95963	F:S6Q230
Run #2							

	Initial Weight	Final Volume
Run #1	5.01 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.00098	0.00061	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00049	0.00012	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00024	0.00012	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00024	0.00012	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00019	0.00024	0.00012	mg/kg	J
375-95-1	Perfluorononanoic acid	ND	0.00024	0.00014	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00024	0.00012	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00024	0.00016	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00024	0.00012	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00024	0.00012	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00024	0.00012	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00024	0.00012	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00024	0.00019	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00024	0.00019	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00024	0.00018	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.00052	0.00024	0.00012	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00024	0.00022	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00024	0.00017	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00024	0.00018	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.00098	0.00049	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.00098	0.00049	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.00098	0.00073	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00024	0.00012	mg/kg	
31506-32-8	MeFOSA	ND	0.00024	0.00017	mg/kg	
4151-50-2	EtFOSA	ND	0.00024	0.00012	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT06-0.2-1.0-030823		
Lab Sample ID:	JD61586-5A	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	81.8
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00024	0.00019	mg/kg	
2991-50-6	EtFOSAA	ND	0.00024	0.00024	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0024	0.0012	mg/kg	
1691-99-2	EtFOSE	ND	0.0024	0.0012	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.00098	0.00035	mg/kg	
919005-14-4	ADONA	ND	0.00098	0.00041	mg/kg	
377-73-1	PFMPA	ND	0.00049	0.00024	mg/kg	
863090-89-5	PFMBA	ND	0.00049	0.00024	mg/kg	
151772-58-6	NFDHA	ND	0.00049	0.00030	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.00098	0.00054	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.00098	0.00049	mg/kg	
113507-82-7	PFEESA	ND	0.00049	0.00024	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0012	0.00062	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0061	0.0014	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0061	0.0015	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	87%		20-150%
	13C5-PFPeA	87%		20-150%
	13C5-PFHxA	89%		20-150%
	13C4-PFHpA	92%		20-150%
	13C8-PFOA	87%		20-150%
	13C9-PFNA	89%		20-150%
	13C6-PFDA	83%		20-150%
	13C7-PFUnDA	89%		20-150%
	13C2-PFDoDA	83%		20-150%
	13C2-PFTeDA	78%		20-150%
	13C3-PFBS	87%		20-150%
	13C3-PFHxS	90%		20-150%

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: LR-TT06-0.2-1.0-030823**Lab Sample ID:** JD61586-5A**Date Sampled:** 03/08/23**Matrix:** SO - Soil**Date Received:** 03/09/23**Method:** EPA DRAFT 1633 EPA 1633 DRAFT**Percent Solids:** 81.8**Project:** Lyndon Road Landfill

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	88%		20-150%
	13C8-FOSA	88%		20-150%
	d3-MeFOSA	75%		20-150%
	d5-EtFOSA	73%		20-150%
	d3-MeFOSAA	93%		20-150%
	d5-EtFOSAA	98%		20-150%
	d7-MeFOSE	75%		20-150%
	d9-EtFOSE	70%		20-150%
	13C2-4:2FTS	101%		20-150%
	13C2-6:2FTS	103%		20-150%
	13C2-8:2FTS	93%		20-150%
	13C3-HFPO-DA	86%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT04-0.2-1.0-030823		
Lab Sample ID:	JD61586-7A	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.7
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15255.D	1	03/23/23 08:29	AFL	03/20/23 10:45	F:OP95963	F:S6Q230
Run #2							

	Initial Weight	Final Volume
Run #1	4.97 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.00067	0.0011	0.00066	mg/kg	J
2706-90-3	Perfluoropentanoic acid	0.00014	0.00053	0.00013	mg/kg	J
307-24-4	Perfluorohexanoic acid	0.00014	0.00027	0.00013	mg/kg	J
375-85-9	Perfluoroheptanoic acid	0.00013	0.00027	0.00013	mg/kg	J
335-67-1	Perfluorooctanoic acid	0.00073	0.00027	0.00013	mg/kg	
375-95-1	Perfluorononanoic acid	0.00025	0.00027	0.00015	mg/kg	J
335-76-2	Perfluorodecanoic acid	ND	0.00027	0.00013	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00027	0.00018	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00027	0.00013	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00027	0.00014	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00027	0.00013	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00027	0.00013	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00027	0.00021	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00027	0.00021	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00027	0.00019	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0028	0.00027	0.00013	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00027	0.00024	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00027	0.00019	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00027	0.00020	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0011	0.00053	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0011	0.00053	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0011	0.00080	mg/kg	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00027	0.00013	mg/kg	
31506-32-8	MeFOSA	ND	0.00027	0.00018	mg/kg	
4151-50-2	EtFOSA	ND	0.00027	0.00013	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-0.2-1.0-030823		
Lab Sample ID:	JD61586-7A	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.7
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00027	0.00021	mg/kg	
2991-50-6	EtFOSAA	ND	0.00027	0.00026	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0027	0.0013	mg/kg	
1691-99-2	EtFOSE	ND	0.0027	0.0013	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0011	0.00038	mg/kg	
919005-14-4	ADONA	ND	0.0011	0.00045	mg/kg	
377-73-1	PFMPA	ND	0.00053	0.00027	mg/kg	
863090-89-5	PFMBA	ND	0.00053	0.00027	mg/kg	
151772-58-6	NFDHA	ND	0.00053	0.00032	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0011	0.00058	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0011	0.00053	mg/kg	
113507-82-7	PFEESA	ND	0.00053	0.00027	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0013	0.00068	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0066	0.0015	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0066	0.0017	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	83%		20-150%
	13C5-PFPeA	80%		20-150%
	13C5-PFHxA	81%		20-150%
	13C4-PFHpA	79%		20-150%
	13C8-PFOA	81%		20-150%
	13C9-PFNA	80%		20-150%
	13C6-PFDA	85%		20-150%
	13C7-PFUnDA	83%		20-150%
	13C2-PFDoDA	85%		20-150%
	13C2-PFTeDA	80%		20-150%
	13C3-PFBS	76%		20-150%
	13C3-PFHxS	79%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT04-0.2-1.0-030823		
Lab Sample ID:	JD61586-7A	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.7
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	88%		20-150%
	13C8-FOSA	91%		20-150%
	d3-MeFOSA	79%		20-150%
	d5-EtFOSA	77%		20-150%
	d3-MeFOSAA	69%		20-150%
	d5-EtFOSAA	79%		20-150%
	d7-MeFOSE	73%		20-150%
	d9-EtFOSE	70%		20-150%
	13C2-4:2FTS	96%		20-150%
	13C2-6:2FTS	89%		20-150%
	13C2-8:2FTS	85%		20-150%
	13C3-HFPO-DA	78%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT04-02-03-030823	
Lab Sample ID:	JD61586-8A	Date Sampled: 03/08/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 84.6
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15256.D	1	03/23/23 08:43	AFL	03/20/23 10:45	F:OP95963	F:S6Q230
Run #2							

	Initial Weight	Final Volume
Run #1	4.96 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.00095	0.00060	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00048	0.00012	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00024	0.00012	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00024	0.00012	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00037	0.00024	0.00012	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00024	0.00014	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00024	0.00012	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00024	0.00016	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00024	0.00012	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00024	0.00012	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00024	0.00012	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00024	0.00012	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00024	0.00019	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00024	0.00019	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00024	0.00017	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0030	0.00024	0.00012	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00024	0.00022	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00024	0.00017	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00024	0.00018	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.00095	0.00048	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.00095	0.00048	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.00095	0.00071	mg/kg	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00024	0.00012	mg/kg	
31506-32-8	MeFOSA	ND	0.00024	0.00016	mg/kg	
4151-50-2	EtFOSA	ND	0.00024	0.00012	mg/kg	

ND = Not detected MDL = Method Detection Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT04-02-03-030823		
Lab Sample ID:	JD61586-8A	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	84.6
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00024	0.00019	mg/kg	
2991-50-6	EtFOSAA	ND	0.00024	0.00023	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0024	0.0012	mg/kg	
1691-99-2	EtFOSE	ND	0.0024	0.0012	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.00095	0.00034	mg/kg	
919005-14-4	ADONA	ND	0.00095	0.00040	mg/kg	
377-73-1	PFMPA	ND	0.00048	0.00024	mg/kg	
863090-89-5	PFMBA	ND	0.00048	0.00024	mg/kg	
151772-58-6	NFDHA	ND	0.00048	0.00029	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.00095	0.00052	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.00095	0.00048	mg/kg	
113507-82-7	PFEESA	ND	0.00048	0.00024	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0012	0.00061	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0060	0.0014	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0060	0.0015	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	83%		20-150%
	13C5-PFPeA	83%		20-150%
	13C5-PFHxA	82%		20-150%
	13C4-PFHpA	81%		20-150%
	13C8-PFOA	79%		20-150%
	13C9-PFNA	82%		20-150%
	13C6-PFDA	79%		20-150%
	13C7-PFUnDA	80%		20-150%
	13C2-PFDoDA	79%		20-150%
	13C2-PFTeDA	77%		20-150%
	13C3-PFBS	81%		20-150%
	13C3-PFHxS	83%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT04-02-03-030823		
Lab Sample ID:	JD61586-8A	Date Sampled:	03/08/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	84.6
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	95%		20-150%
	13C8-FOSA	90%		20-150%
	d3-MeFOSA	80%		20-150%
	d5-EtFOSA	71%		20-150%
	d3-MeFOSAA	100%		20-150%
	d5-EtFOSAA	97%		20-150%
	d7-MeFOSE	75%		20-150%
	d9-EtFOSE	74%		20-150%
	13C2-4:2FTS	94%		20-150%
	13C2-6:2FTS	92%		20-150%
	13C2-8:2FTS	74%		20-150%
	13C3-HFPO-DA	81%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
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5894-7371-1181

Page 1 of 1

FE SPH -	Bottle Order Control # 17m-03123-153
SGS Quote #	SGS Job # JD61586

[illegible]

I know

JD61586: Chain of Custody

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SGS Sample Receipt Summary

Job Number: JD61586

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - TEST TRENC

Date / Time Received: 3/9/2023 10:00:00 AM

Delivery Method: FEDEX

Airbill #'s:
Cooler Temps (Raw Measured) °C: Cooler 1: (1.3);

Cooler Temps (Corrected) °C: Cooler 1: (1.3);

Cooler Security
Y or N
Y or N

- | | |
|--|--|
| 1. Custody Seals Present: ☒ ☐ | 3. COC Present: ☒ ☐ |
| 2. Custody Seals Intact: ☒ ☐ | 4. Smpl Dates/Time OK ☒ ☐ |

Cooler Temperature
Y or N

- | |
|---|
| 1. Temp criteria achieved: ☒ ☐ |
| 2. Cooler temp verification: _____ |
| 3. Cooler media: <u>Ice (Bag)</u> |
| 4. No. Coolers: <u>1</u> |

Quality Control Preservation
Y or N
N/A

- | |
|---|
| 1. Trip Blank present / cooler: ☐ ☐ ☒ |
| 2. Trip Blank listed on COC: ☐ ☐ ☒ |
| 3. Samples preserved properly: ☒ ☐ ☐ |
| 4. VOCs headspace free: ☐ ☐ ☒ |

Sample Integrity - Documentation
Y or N

- | |
|---|
| 1. Sample labels present on bottles: ☒ ☐ |
| 2. Container labeling complete: ☒ ☐ |
| 3. Sample container label / COC agree: ☒ ☐ |

Sample Integrity - Condition
Y or N

- | |
|---|
| 1. Sample recvd within HT: ☒ ☐ |
| 2. All containers accounted for: ☒ ☐ |
| 3. Condition of sample: <u>Intact</u> |

Sample Integrity - Instructions
Y or N N/A

- | | | | |
|---|--|--|-------------------------------------|
| 1. Analysis requested is clear: ☒ ☐ | | | |
| 2. Bottles received for unspecified tests: ☐ ☒ | | | |
| 3. Sufficient volume recvd for analysis: ☒ ☐ | | | |
| 4. Compositing instructions clear: ☐ ☐ | | | ☒ |
| 5. Filtering instructions clear: ☐ ☐ | | | ☒ |

Test Strip Lot #s:

 pH 1-12: 231619

 pH 12+: 203117A

Other: (Specify)

Comments

 SM089-03
Rev. Date 12/7/17

JD61586: Chain of Custody

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JD61586: Chain of Custody
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Date/Time: 3/14/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

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The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD61598

Sampling Date: 03/07/23

Report to:

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ATTN: Distribution4

Total number of pages in report: 37



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD61598

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD61598-1	03/07/23	15:15 BH	03/09/23	AQ	Trip Blank Soil	LR-TB-030723
JD61598-2	03/07/23	00:00 BH	03/09/23	SO	Soil	DUP-030723
* JD61598-2A	03/07/23	00:00 BH	03/09/23	SO	Soil	DUP-030723
JD61598-2C	03/07/23	00:00 BH	03/09/23	SO	Soil	DUP-030723
JD61598-3	03/07/23	10:15 BH	03/09/23	SO	Soil	LR-TT01-0.0-0.2-030723
* JD61598-3A	03/07/23	10:15 BH	03/09/23	SO	Soil	LR-TT01-0.0-0.2-030723
JD61598-4	03/07/23	10:30 BH	03/09/23	SO	Soil	LR-TT01-0.2-1.0-030723
* JD61598-4A	03/07/23	10:30 BH	03/09/23	SO	Soil	LR-TT01-0.2-1.0-030723
* JD61598-4B	03/07/23	10:30 BH	03/09/23	SO	Soil	LR-TT01-0.2-1.0-030723
JD61598-4C	03/07/23	10:30 BH	03/09/23	SO	Soil	LR-TT01-0.2-1.0-030723
JD61598-5	03/07/23	11:40 BH	03/09/23	SO	Soil	LR-TT01-05-06-030723
* JD61598-6	03/07/23	11:35 BH	03/09/23	SO	Soil	LR-TT01-FILL-030723

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD61598

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD61598-7	03/07/23	11:10	BH	03/09/23	SO	Soil	LR-TT07-0.2-1.0-030723
* JD61598-7A	03/07/23	11:10	BH	03/09/23	SO	Soil	LR-TT07-0.2-1.0-030723
* JD61598-7B	03/07/23	11:10	BH	03/09/23	SO	Soil	LR-TT07-0.2-1.0-030723
JD61598-7C	03/07/23	11:10	BH	03/09/23	SO	Soil	LR-TT07-0.2-1.0-030723
JD61598-8	03/07/23	10:00	BH	03/09/23	SO	Soil	LR-TT07-04-05-030723
* JD61598-8A	03/07/23	10:00	BH	03/09/23	SO	Soil	LR-TT07-04-05-030723
JD61598-9	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.2-1.0-030723
* JD61598-9A	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.2-1.0-030723
* JD61598-9AD	03/07/23	14:00	BH	03/09/23	SO	Soil Dup/MSD	LR-TT02-0.2-1.0-030723_MSD
* JD61598-9AS	03/07/23	14:00	BH	03/09/23	SO	Soil Matrix Spike	LR-TT02-0.2-1.0-030723_MS
* JD61598-9B	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.2-1.0-030723
JD61598-9C	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.2-1.0-030723
JD61598-9D	03/07/23	14:00	BH	03/09/23	SO	Soil Dup/MSD	LR-TT02-0.2-1.0-030723_MSD

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD61598

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD61598-9DC	03/07/23	14:00 BH	03/09/23	SO	Soil Dup/MSD	LR-TT02-0.2-1.0-030723_MSD
JD61598-9S	03/07/23	14:00 BH	03/09/23	SO	Soil Matrix Spike	LR-TT02-0.2-1.0-030723_MS
JD61598-10	03/07/23	14:00 BH	03/09/23	SO	Soil	LR-TT02-0.0-0.2-030723
* JD61598-10A	03/07/23	14:00 BH	03/09/23	SO	Soil	LR-TT02-0.0-0.2-030723
JD61598-11	03/07/23	15:05 BH	03/09/23	SO	Soil	LR-TT03-0.0-0.2-030723
* JD61598-11A	03/07/23	15:05 BH	03/09/23	SO	Soil	LR-TT03-0.0-0.2-030723
JD61598-12	03/07/23	15:10 BH	03/09/23	SO	Soil	LR-TT03-0.2-1.0-030723
* JD61598-12A	03/07/23	15:10 BH	03/09/23	SO	Soil	LR-TT03-0.2-1.0-030723
* JD61598-12B	03/07/23	15:10 BH	03/09/23	SO	Soil	LR-TT03-0.2-1.0-030723
JD61598-12C	03/07/23	15:10 BH	03/09/23	SO	Soil	LR-TT03-0.2-1.0-030723
JD61598-13	03/07/23	15:15 BH	03/09/23	SO	Soil	LR-TT03-05-06-030723

* The following report applies to these samples only (14 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 3

Client Sample ID:	DUP-030723		
Lab Sample ID:	JD61598-2A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16158.D	1	04/06/23 02:23	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

	Initial Weight	Final Volume
Run #1	5.05 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0011	0.00067	mg/kg	
2706-90-3	Perfluoropentanoic acid	0.00021	0.00054	0.00013	mg/kg	J
307-24-4	Perfluorohexanoic acid	0.00020	0.00027	0.00013	mg/kg	J
375-85-9	Perfluoroheptanoic acid	0.00025	0.00027	0.00013	mg/kg	J
335-67-1	Perfluorooctanoic acid	0.0012	0.00027	0.00013	mg/kg	
375-95-1	Perfluorononanoic acid	0.00016	0.00027	0.00015	mg/kg	J
335-76-2	Perfluorodecanoic acid	0.00019	0.00027	0.00013	mg/kg	J
2058-94-8	Perfluoroundecanoic acid	ND	0.00027	0.00018	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00027	0.00013	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00027	0.00014	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00027	0.00013	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00027	0.00013	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00027	0.00021	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00027	0.00021	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00027	0.00020	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0017	0.00027	0.00013	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00027	0.00024	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00027	0.00019	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00027	0.00020	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0011	0.00054	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0011	0.00054	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0011	0.00081	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00027	0.00013	mg/kg	
31506-32-8	MeFOSA	ND	0.00027	0.00018	mg/kg	
4151-50-2	EtFOSA	ND	0.00027	0.00014	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-030723		
Lab Sample ID:	JD61598-2A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00027	0.00021	mg/kg	
2991-50-6	EtFOSAA	ND	0.00027	0.00027	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0027	0.0013	mg/kg	
1691-99-2	EtFOSE	ND	0.0027	0.0013	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0011	0.00039	mg/kg	
919005-14-4	ADONA	ND	0.0011	0.00045	mg/kg	
377-73-1	PFMPA	ND	0.00054	0.00027	mg/kg	
863090-89-5	PFMBA	ND	0.00054	0.00027	mg/kg	
151772-58-6	NFDHA	ND	0.00054	0.00033	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0011	0.00059	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0011	0.00054	mg/kg	
113507-82-7	PFEESA	ND	0.00054	0.00027	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0013	0.00069	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0067	0.0016	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.0067	0.0017	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	88%		20-150%
	13C5-PFPeA	89%		20-150%
	13C5-PFHxA	100%		20-150%
	13C4-PFHpA	92%		20-150%
	13C8-PFOA	88%		20-150%
	13C9-PFNA	85%		20-150%
	13C6-PFDA	88%		20-150%
	13C7-PFUnDA	91%		20-150%
	13C2-PFDoDA	83%		20-150%
	13C2-PFTeDA	76%		20-150%
	13C3-PFBS	84%		20-150%
	13C3-PFHxS	81%		20-150%

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DUP-030723	
Lab Sample ID:	JD61598-2A	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 73.5
Project:	Lyndon Road Landfill	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	103%		20-150%
	13C8-FOSA	90%		20-150%
	d3-MeFOSA	80%		20-150%
	d5-EtFOSA	74%		20-150%
	d3-MeFOSAA	108%		20-150%
	d5-EtFOSAA	101%		20-150%
	d7-MeFOSE	61%		20-150%
	d9-EtFOSE	57%		20-150%
	13C2-4:2FTS	102%		20-150%
	13C2-6:2FTS	95%		20-150%
	13C2-8:2FTS	78%		20-150%
	13C3-HFPO-DA	86%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT01-0.0-0.2-030723	
Lab Sample ID:	JD61598-3A	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 3.2
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16159.D	1	04/06/23 02:37	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

	Initial Weight	Final Volume
Run #1	4.97 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0221	0.025	0.016	mg/kg	J
2706-90-3	Perfluoropentanoic acid	0.0068	0.013	0.0031	mg/kg	J
307-24-4	Perfluorohexanoic acid	0.0049	0.0063	0.0031	mg/kg	J
375-85-9	Perfluoroheptanoic acid	0.0066	0.0063	0.0031	mg/kg	
335-67-1	Perfluorooctanoic acid	0.0550	0.0063	0.0031	mg/kg	
375-95-1	Perfluorononanoic acid	0.0086	0.0063	0.0036	mg/kg	
335-76-2	Perfluorodecanoic acid	0.0048	0.0063	0.0031	mg/kg	J
2058-94-8	Perfluoroundecanoic acid	0.0048	0.0063	0.0042	mg/kg	J
307-55-1	Perfluorododecanoic acid	ND	0.0063	0.0031	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.0063	0.0032	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.0063	0.0031	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0063	0.0031	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0063	0.0049	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0063	0.0050	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0063	0.0046	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0461	0.0063	0.0031	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0063	0.0057	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0063	0.0045	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0063	0.0047	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.025	0.013	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.025	0.013	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.025	0.019	mg/kg	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0063	0.0031	mg/kg	
31506-32-8	MeFOSA	ND	0.0063	0.0043	mg/kg	
4151-50-2	EtFOSA	ND	0.0063	0.0032	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT01-0.0-0.2-030723		
Lab Sample ID:	JD61598-3A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	3.2
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0063	0.0050	mg/kg	
2991-50-6	EtFOSAA	ND	0.0063	0.0062	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.063	0.031	mg/kg	
1691-99-2	EtFOSE	ND	0.063	0.031	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.025	0.0091	mg/kg	
919005-14-4	ADONA	ND	0.025	0.011	mg/kg	
377-73-1	PFMPA	ND	0.013	0.0063	mg/kg	
863090-89-5	PFMBA	ND	0.013	0.0063	mg/kg	
151772-58-6	NFDHA	ND	0.013	0.0077	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.025	0.014	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.025	0.013	mg/kg	
113507-82-7	PFEESA	ND	0.013	0.0063	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.031	0.016	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.16	0.036	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.16	0.040	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	93%		20-150%
	13C5-PFPeA	91%		20-150%
	13C5-PFHxA	90%		20-150%
	13C4-PFHpA	88%		20-150%
	13C8-PFOA	90%		20-150%
	13C9-PFNA	90%		20-150%
	13C6-PFDA	90%		20-150%
	13C7-PFUnDA	93%		20-150%
	13C2-PFDoDA	87%		20-150%
	13C2-PFTeDA	81%		20-150%
	13C3-PFBS	79%		20-150%
	13C3-PFHxS	85%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT01-0.0-0.2-030723	
Lab Sample ID:	JD61598-3A	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 3.2
Project:	Lyndon Road Landfill	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	89%		20-150%
	13C8-FOSA	90%		20-150%
	d3-MeFOSA	87%		20-150%
	d5-EtFOSA	77%		20-150%
	d3-MeFOSAA	103%		20-150%
	d5-EtFOSAA	106%		20-150%
	d7-MeFOSE	66%		20-150%
	d9-EtFOSE	59%		20-150%
	13C2-4:2FTS	102%		20-150%
	13C2-6:2FTS	100%		20-150%
	13C2-8:2FTS	79%		20-150%
	13C3-HFPO-DA	86%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT01-0.2-1.0-030723		
Lab Sample ID:	JD61598-4A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	72.0
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16160.D	1	04/06/23 02:51	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.97 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0013	0.0011	0.00070	mg/kg	
2706-90-3	Perfluoropentanoic acid	0.00034	0.00056	0.00014	mg/kg	J
307-24-4	Perfluorohexanoic acid	0.00026	0.00028	0.00014	mg/kg	J
375-85-9	Perfluoroheptanoic acid	0.00026	0.00028	0.00014	mg/kg	J
335-67-1	Perfluorooctanoic acid	0.0020	0.00028	0.00014	mg/kg	
375-95-1	Perfluorononanoic acid	0.00024	0.00028	0.00016	mg/kg	J
335-76-2	Perfluorodecanoic acid	0.00015	0.00028	0.00014	mg/kg	J
2058-94-8	Perfluoroundecanoic acid	0.00020	0.00028	0.00019	mg/kg	J
307-55-1	Perfluorododecanoic acid	ND	0.00028	0.00014	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00028	0.00014	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00028	0.00014	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00028	0.00014	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00028	0.00022	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00028	0.00022	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00028	0.00020	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.00098	0.00028	0.00014	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00028	0.00025	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00028	0.00020	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00028	0.00021	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0011	0.00056	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0011	0.00056	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0011	0.00084	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00028	0.00014	mg/kg	
31506-32-8	MeFOSA	ND	0.00028	0.00019	mg/kg	
4151-50-2	EtFOSA	ND	0.00028	0.00014	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT01-0.2-1.0-030723		
Lab Sample ID:	JD61598-4A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	72.0
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00028	0.00022	mg/kg	
2991-50-6	EtFOSAA	ND	0.00028	0.00028	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0028	0.0014	mg/kg	
1691-99-2	EtFOSE	ND	0.0028	0.0014	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0011	0.00040	mg/kg	
919005-14-4	ADONA	ND	0.0011	0.00047	mg/kg	
377-73-1	PFMPA	ND	0.00056	0.00028	mg/kg	
863090-89-5	PFMBA	ND	0.00056	0.00028	mg/kg	
151772-58-6	NFDHA	ND	0.00056	0.00034	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0011	0.00061	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0011	0.00056	mg/kg	
113507-82-7	PFEEESA	ND	0.00056	0.00028	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0014	0.00071	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0070	0.0016	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.0070	0.0018	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	84%		20-150%
	13C5-PFPeA	81%		20-150%
	13C5-PFHxA	86%		20-150%
	13C4-PFHpA	85%		20-150%
	13C8-PFOA	87%		20-150%
	13C9-PFNA	84%		20-150%
	13C6-PFDA	80%		20-150%
	13C7-PFUnDA	81%		20-150%
	13C2-PFDoDA	73%		20-150%
	13C2-PFTeDA	70%		20-150%
	13C3-PFBS	82%		20-150%
	13C3-PFHxS	80%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT01-0.2-1.0-030723		
Lab Sample ID:	JD61598-4A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	72.0
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	81%		20-150%
	13C8-FOSA	76%		20-150%
	d3-MeFOSA	73%		20-150%
	d5-EtFOSA	66%		20-150%
	d3-MeFOSAA	88%		20-150%
	d5-EtFOSAA	89%		20-150%
	d7-MeFOSE	58%		20-150%
	d9-EtFOSE	55%		20-150%
	13C2-4:2FTS	94%		20-150%
	13C2-6:2FTS	93%		20-150%
	13C2-8:2FTS	82%		20-150%
	13C3-HFPO-DA	80%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT07-0.2-1.0-030723		
Lab Sample ID:	JD61598-7A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	82.0
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16161.D	1	04/06/23 03:05	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.00 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.00098	0.00061	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00049	0.00012	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00024	0.00012	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00024	0.00012	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00017	0.00024	0.00012	mg/kg	J
375-95-1	Perfluorononanoic acid	ND	0.00024	0.00014	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00024	0.00012	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00024	0.00016	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00024	0.00012	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00024	0.00012	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00024	0.00012	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00024	0.00012	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00024	0.00019	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00024	0.00019	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00024	0.00018	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.00075	0.00024	0.00012	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00024	0.00022	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00024	0.00017	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00024	0.00018	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.00098	0.00049	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.00098	0.00049	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.00098	0.00073	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00024	0.00012	mg/kg	
31506-32-8	MeFOSA	ND	0.00024	0.00017	mg/kg	
4151-50-2	EtFOSA	ND	0.00024	0.00012	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT07-0.2-1.0-030723		
Lab Sample ID:	JD61598-7A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	82.0
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00024	0.00019	mg/kg	
2991-50-6	EtFOSAA	ND	0.00024	0.00024	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0024	0.0012	mg/kg	
1691-99-2	EtFOSE	ND	0.0024	0.0012	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.00098	0.00035	mg/kg	
919005-14-4	ADONA	ND	0.00098	0.00041	mg/kg	
377-73-1	PFMPA	ND	0.00049	0.00024	mg/kg	
863090-89-5	PFMBA	ND	0.00049	0.00024	mg/kg	
151772-58-6	NFDHA	ND	0.00049	0.00030	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.00098	0.00054	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.00098	0.00049	mg/kg	
113507-82-7	PFEESA	ND	0.00049	0.00024	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0012	0.00062	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0061	0.0014	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.0061	0.0015	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	83%		20-150%
	13C5-PFPeA	81%		20-150%
	13C5-PFHxA	84%		20-150%
	13C4-PFHpA	80%		20-150%
	13C8-PFOA	78%		20-150%
	13C9-PFNA	82%		20-150%
	13C6-PFDA	88%		20-150%
	13C7-PFUnDA	85%		20-150%
	13C2-PFDoDA	76%		20-150%
	13C2-PFTeDA	70%		20-150%
	13C3-PFBS	79%		20-150%
	13C3-PFHxS	79%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT07-0.2-1.0-030723		
Lab Sample ID:	JD61598-7A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	82.0
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	76%		20-150%
	13C8-FOSA	78%		20-150%
	d3-MeFOSA	73%		20-150%
	d5-EtFOSA	69%		20-150%
	d3-MeFOSAA	94%		20-150%
	d5-EtFOSAA	94%		20-150%
	d7-MeFOSE	56%		20-150%
	d9-EtFOSE	55%		20-150%
	13C2-4:2FTS	97%		20-150%
	13C2-6:2FTS	85%		20-150%
	13C2-8:2FTS	86%		20-150%
	13C3-HFPO-DA	78%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT07-04-05-030723	
Lab Sample ID:	JD61598-8A	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 79.0
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16162.D	1	04/06/23 03:19	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

	Initial Weight	Final Volume
Run #1	4.96 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0010	0.00064	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00051	0.00013	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00026	0.00013	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00026	0.00013	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00076	0.00026	0.00013	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00026	0.00015	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00026	0.00013	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00026	0.00017	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00026	0.00013	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00026	0.00013	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00026	0.00013	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00026	0.00013	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00026	0.00020	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00026	0.00020	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00026	0.00019	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0043	0.00026	0.00013	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00026	0.00023	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00026	0.00018	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00026	0.00019	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0010	0.00051	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0010	0.00051	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0010	0.00077	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00026	0.00013	mg/kg	
31506-32-8	MeFOSA	ND	0.00026	0.00017	mg/kg	
4151-50-2	EtFOSA	ND	0.00026	0.00013	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT07-04-05-030723		
Lab Sample ID:	JD61598-8A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	79.0
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00026	0.00020	mg/kg	
2991-50-6	EtFOSAA	ND	0.00026	0.00025	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0026	0.0013	mg/kg	
1691-99-2	EtFOSE	ND	0.0026	0.0013	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0010	0.00037	mg/kg	
919005-14-4	ADONA	ND	0.0010	0.00043	mg/kg	
377-73-1	PFMPA	ND	0.00051	0.00026	mg/kg	
863090-89-5	PFMBA	ND	0.00051	0.00026	mg/kg	
151772-58-6	NFDHA	ND	0.00051	0.00031	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0010	0.00056	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0010	0.00051	mg/kg	
113507-82-7	PFEEESA	ND	0.00051	0.00026	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0013	0.00065	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0064	0.0015	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.0064	0.0016	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	83%		20-150%
	13C5-PFPeA	96%		20-150%
	13C5-PFHxA	98%		20-150%
	13C4-PFHpA	96%		20-150%
	13C8-PFOA	84%		20-150%
	13C9-PFNA	85%		20-150%
	13C6-PFDA	81%		20-150%
	13C7-PFUnDA	82%		20-150%
	13C2-PFDoDA	76%		20-150%
	13C2-PFTeDA	70%		20-150%
	13C3-PFBS	81%		20-150%
	13C3-PFHxS	75%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT07-04-05-030723	
Lab Sample ID:	JD61598-8A	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 79.0
Project:	Lyndon Road Landfill	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	82%		20-150%
	13C8-FOSA	75%		20-150%
	d3-MeFOSA	69%		20-150%
	d5-EtFOSA	60%		20-150%
	d3-MeFOSAA	81%		20-150%
	d5-EtFOSAA	86%		20-150%
	d7-MeFOSE	51%		20-150%
	d9-EtFOSE	50%		20-150%
	13C2-4:2FTS	88%		20-150%
	13C2-6:2FTS	95%		20-150%
	13C2-8:2FTS	91%		20-150%
	13C3-HFPO-DA	89%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT02-0.2-1.0-030723		
Lab Sample ID:	JD61598-9A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	79.6
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16165.D	1	04/06/23 04:01	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.96 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0010	0.00063	mg/kg	
2706-90-3	Perfluoropentanoic acid	0.00021	0.00051	0.00013	mg/kg	J
307-24-4	Perfluorohexanoic acid	0.00018	0.00025	0.00013	mg/kg	J
375-85-9	Perfluoroheptanoic acid	0.00021	0.00025	0.00013	mg/kg	J
335-67-1	Perfluorooctanoic acid	0.0010	0.00025	0.00013	mg/kg	
375-95-1	Perfluorononanoic acid	0.00018	0.00025	0.00015	mg/kg	J
335-76-2	Perfluorodecanoic acid	0.00015	0.00025	0.00013	mg/kg	J
2058-94-8	Perfluoroundecanoic acid	ND	0.00025	0.00017	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00025	0.00013	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00025	0.00013	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00025	0.00013	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00025	0.00013	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00025	0.00020	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00025	0.00020	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00025	0.00018	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0024	0.00025	0.00013	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00025	0.00023	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00025	0.00018	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00025	0.00019	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0010	0.00051	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0010	0.00051	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0010	0.00076	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00025	0.00013	mg/kg	
31506-32-8	MeFOSA	ND	0.00025	0.00017	mg/kg	
4151-50-2	EtFOSA	ND	0.00025	0.00013	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT02-0.2-1.0-030723		
Lab Sample ID:	JD61598-9A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	79.6
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00025	0.00020	mg/kg	
2991-50-6	EtFOSAA	ND	0.00025	0.00025	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0025	0.0013	mg/kg	
1691-99-2	EtFOSE	ND	0.0025	0.0013	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0010	0.00037	mg/kg	
919005-14-4	ADONA	ND	0.0010	0.00043	mg/kg	
377-73-1	PFMPA	ND	0.00051	0.00025	mg/kg	
863090-89-5	PFMBA	ND	0.00051	0.00025	mg/kg	
151772-58-6	NFDHA	ND	0.00051	0.00031	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0010	0.00056	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0010	0.00051	mg/kg	
113507-82-7	PFEEESA	ND	0.00051	0.00025	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0013	0.00064	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0063	0.0015	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.0063	0.0016	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	81%		20-150%
	13C5-PFPeA	82%		20-150%
	13C5-PFHxA	85%		20-150%
	13C4-PFHpA	83%		20-150%
	13C8-PFOA	80%		20-150%
	13C9-PFNA	74%		20-150%
	13C6-PFDA	89%		20-150%
	13C7-PFUnDA	84%		20-150%
	13C2-PFDoDA	75%		20-150%
	13C2-PFTeDA	67%		20-150%
	13C3-PFBS	76%		20-150%
	13C3-PFHxS	78%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT02-0.2-1.0-030723		
Lab Sample ID:	JD61598-9A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	79.6
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	81%		20-150%
	13C8-FOSA	76%		20-150%
	d3-MeFOSA	66%		20-150%
	d5-EtFOSA	52%		20-150%
	d3-MeFOSAA	98%		20-150%
	d5-EtFOSAA	92%		20-150%
	d7-MeFOSE	55%		20-150%
	d9-EtFOSE	55%		20-150%
	13C2-4:2FTS	84%		20-150%
	13C2-6:2FTS	82%		20-150%
	13C2-8:2FTS	65%		20-150%
	13C3-HFPO-DA	78%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT02-0.0-0.2-030723		
Lab Sample ID:	JD61598-10A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.8
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16168.D	1	04/06/23 04:42	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.03 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0010	0.00066	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00052	0.00013	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00026	0.00013	mg/kg	
375-85-9	Perfluoroheptanoic acid	0.00016	0.00026	0.00013	mg/kg	J
335-67-1	Perfluorooctanoic acid	0.00078	0.00026	0.00013	mg/kg	
375-95-1	Perfluorononanoic acid	0.00027	0.00026	0.00015	mg/kg	
335-76-2	Perfluorodecanoic acid	0.00022	0.00026	0.00013	mg/kg	J
2058-94-8	Perfluoroundecanoic acid	ND	0.00026	0.00017	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00026	0.00013	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00026	0.00013	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00026	0.00013	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00026	0.00013	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00026	0.00021	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00026	0.00021	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00026	0.00019	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0020	0.00026	0.00013	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00026	0.00024	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00026	0.00019	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00026	0.00020	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0010	0.00052	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0010	0.00052	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0010	0.00079	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00026	0.00013	mg/kg	
31506-32-8	MeFOSA	ND	0.00026	0.00018	mg/kg	
4151-50-2	EtFOSA	ND	0.00026	0.00013	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT02-0.0-0.2-030723		
Lab Sample ID:	JD61598-10A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.8
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00026	0.00021	mg/kg	
2991-50-6	EtFOSAA	ND	0.00026	0.00026	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0026	0.0013	mg/kg	
1691-99-2	EtFOSE	ND	0.0026	0.0013	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0010	0.00038	mg/kg	
919005-14-4	ADONA	ND	0.0010	0.00044	mg/kg	
377-73-1	PFMPA	ND	0.00052	0.00026	mg/kg	
863090-89-5	PFMBA	ND	0.00052	0.00026	mg/kg	
151772-58-6	NFDHA	ND	0.00052	0.00032	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0010	0.00058	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0010	0.00052	mg/kg	
113507-82-7	PFEESA	ND	0.00052	0.00026	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0013	0.00067	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0066	0.0015	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.0066	0.0017	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	79%		20-150%
	13C5-PFPeA	81%		20-150%
	13C5-PFHxA	82%		20-150%
	13C4-PFHpA	81%		20-150%
	13C8-PFOA	75%		20-150%
	13C9-PFNA	76%		20-150%
	13C6-PFDA	76%		20-150%
	13C7-PFUnDA	85%		20-150%
	13C2-PFDoDA	79%		20-150%
	13C2-PFTeDA	74%		20-150%
	13C3-PFBS	75%		20-150%
	13C3-PFHxS	73%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT02-0.0-0.2-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-10A	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	75.8
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	68%		20-150%
	13C8-FOSA	76%		20-150%
	d3-MeFOSA	62%		20-150%
	d5-EtFOSA	58%		20-150%
	d3-MeFOSAA	72%		20-150%
	d5-EtFOSAA	81%		20-150%
	d7-MeFOSE	54%		20-150%
	d9-EtFOSE	51%		20-150%
	13C2-4:2FTS	86%		20-150%
	13C2-6:2FTS	86%		20-150%
	13C2-8:2FTS	67%		20-150%
	13C3-HFPO-DA	76%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT03-0.0-0.2-030723		
Lab Sample ID:	JD61598-11A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.9
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16171.D	1	04/06/23 05:24	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.00 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0011	0.00066	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00053	0.00013	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00026	0.00013	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00026	0.00013	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00014	0.00026	0.00013	mg/kg	J
375-95-1	Perfluorononanoic acid	ND	0.00026	0.00015	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00026	0.00013	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00026	0.00018	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00026	0.00013	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00026	0.00013	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00026	0.00013	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00026	0.00013	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00026	0.00021	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00026	0.00021	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00026	0.00019	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0013	0.00026	0.00013	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00026	0.00024	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00026	0.00019	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00026	0.00020	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0011	0.00053	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0011	0.00053	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0011	0.00079	mg/kg	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00026	0.00013	mg/kg	
31506-32-8	MeFOSA	ND	0.00026	0.00018	mg/kg	
4151-50-2	EtFOSA	ND	0.00026	0.00013	mg/kg	

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT03-0.0-0.2-030723		
Lab Sample ID:	JD61598-11A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.9
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00026	0.00021	mg/kg	
2991-50-6	EtFOSAA	ND	0.00026	0.00026	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0026	0.0013	mg/kg	
1691-99-2	EtFOSE	ND	0.0026	0.0013	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0011	0.00038	mg/kg	
919005-14-4	ADONA	ND	0.0011	0.00044	mg/kg	
377-73-1	PFMPA	ND	0.00053	0.00026	mg/kg	
863090-89-5	PFMBA	ND	0.00053	0.00026	mg/kg	
151772-58-6	NFDHA	ND	0.00053	0.00032	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0011	0.00058	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0011	0.00053	mg/kg	
113507-82-7	PFEESA	ND	0.00053	0.00026	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0013	0.00067	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0066	0.0015	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.0066	0.0017	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	86%		20-150%
	13C5-PFPeA	82%		20-150%
	13C5-PFHxA	83%		20-150%
	13C4-PFHpA	84%		20-150%
	13C8-PFOA	84%		20-150%
	13C9-PFNA	84%		20-150%
	13C6-PFDA	91%		20-150%
	13C7-PFUnDA	86%		20-150%
	13C2-PFDoDA	87%		20-150%
	13C2-PFTeDA	76%		20-150%
	13C3-PFBS	81%		20-150%
	13C3-PFHxS	84%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT03-0.0-0.2-030723		
Lab Sample ID:	JD61598-11A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	75.9
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	82%		20-150%
	13C8-FOSA	87%		20-150%
	d3-MeFOSA	78%		20-150%
	d5-EtFOSA	76%		20-150%
	d3-MeFOSAA	97%		20-150%
	d5-EtFOSAA	108%		20-150%
	d7-MeFOSE	61%		20-150%
	d9-EtFOSE	57%		20-150%
	13C2-4:2FTS	90%		20-150%
	13C2-6:2FTS	93%		20-150%
	13C2-8:2FTS	82%		20-150%
	13C3-HFPO-DA	80%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT03-0.2-1.0-030723		
Lab Sample ID:	JD61598-12A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	83.5
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16172.D	1	04/06/23 05:38	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

	Initial Weight	Final Volume
Run #1	5.00 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.00096	0.00060	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00048	0.00012	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00024	0.00012	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00024	0.00012	mg/kg	
335-67-1	Perfluorooctanoic acid	ND	0.00024	0.00012	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00024	0.00014	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00024	0.00012	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00024	0.00016	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00024	0.00012	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00024	0.00012	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00024	0.00012	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00024	0.00012	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00024	0.00019	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00024	0.00019	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00024	0.00017	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.00080	0.00024	0.00012	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00024	0.00022	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00024	0.00017	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00024	0.00018	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.00096	0.00048	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.00096	0.00048	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.00096	0.00072	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00024	0.00012	mg/kg	
31506-32-8	MeFOSA	ND	0.00024	0.00016	mg/kg	
4151-50-2	EtFOSA	ND	0.00024	0.00012	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT03-0.2-1.0-030723		
Lab Sample ID:	JD61598-12A	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	83.5
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
---------	----------	--------	----	-----	-------	---

PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00024	0.00019	mg/kg	
2991-50-6	EtFOSAA	ND	0.00024	0.00024	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0024	0.0012	mg/kg	
1691-99-2	EtFOSE	ND	0.0024	0.0012	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.00096	0.00035	mg/kg	
919005-14-4	ADONA	ND	0.00096	0.00040	mg/kg	
377-73-1	PFMPA	ND	0.00048	0.00024	mg/kg	
863090-89-5	PFMBA	ND	0.00048	0.00024	mg/kg	
151772-58-6	NFDHA	ND	0.00048	0.00029	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.00096	0.00053	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.00096	0.00048	mg/kg	
113507-82-7	PFEESA	ND	0.00048	0.00024	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0012	0.00061	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0060	0.0014	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.0060	0.0015	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	81%		20-150%
	13C5-PFPeA	76%		20-150%
	13C5-PFHxA	77%		20-150%
	13C4-PFHpA	76%		20-150%
	13C8-PFOA	81%		20-150%
	13C9-PFNA	76%		20-150%
	13C6-PFDA	89%		20-150%
	13C7-PFUnDA	83%		20-150%
	13C2-PFDoDA	76%		20-150%
	13C2-PFTeDA	69%		20-150%
	13C3-PFBS	74%		20-150%
	13C3-PFHxS	73%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT03-0.2-1.0-030723	
Lab Sample ID:	JD61598-12A	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 83.5
Project:	Lyndon Road Landfill	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	78%		20-150%
	13C8-FOSA	76%		20-150%
	d3-MeFOSA	66%		20-150%
	d5-EtFOSA	57%		20-150%
	d3-MeFOSAA	81%		20-150%
	d5-EtFOSAA	80%		20-150%
	d7-MeFOSE	49%		20-150%
	d9-EtFOSE	51%		20-150%
	13C2-4:2FTS	88%		20-150%
	13C2-6:2FTS	90%		20-150%
	13C2-8:2FTS	76%		20-150%
	13C3-HFPO-DA	74%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

IB
50
54

www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

[illegible]

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 2 of 2

SGS Sample Receipt Summary

Job Number: jd61598

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - TEST TRENCH -

Date / Time Received: 3/9/2023 10:00:00 AM

Delivery Method: FEDEX

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (1.1);

Cooler Temps (Corrected) °C: Cooler 1: (1.1);

Cooler Security
Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature
Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation
Y or N N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation
Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition
Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions
Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____

Comments

1). Sample "LR-EB-01-030723" was received with JD61586 as opposed to this job. Please confirm.

JD61598: Chain of Custody

Page 3 of 6

Responded to by: Marie Meidhof

Response Date: 3/13

Ok to proceed with that sample on JD61586

JD61598: Chain of Custody
Page 4 of 6

Job Change Order: JD61598

Requested Date:	3/14/2023	Received Date:	3/9/2023
Account Name:	Ramboll Americas	Due Date:	3/21/2023
Project Description:	Lyndon Road Landfill	Deliverable:	NYASPB
C/O Initiated By:	MARIE_MEI	PM:	MM
		TAT (Days):	7

=====

Sample #:	JD61598-9D	Dept:	
Client ID:	LR-TT02-0-2-1.0-030723_MSD	TAT:	7
Change:	Add PHTEMP		

=====

Sample #:	JD61598-12	Dept:	
Client ID:	LR-TT03-0-2-1.0-030723	TAT:	7
Change:	Add PHTEMP		

=====

Sample #:	JD61598-2	Dept:	
Client ID:	DUP-030723	TAT:	7
Change:	Add PHTEMP		

=====

Sample #:	JD61598-4	Dept:	
Client ID:	LR-TT01-0-2-1.0-030723	TAT:	7
Change:	Add PHTEMP		

Above Changes Per:

Date/Time: 3/14/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD61598: Chain of Custody
Page 6 of 6

Sample #: JD61598-7
Client ID: LR-TT07-0.2-1.0-030723
Change: Add PHTEMP
Dept: TAT: 7

Client ID: LR-TT02-0.2-1.0-030723

Above Changes Per:

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD61598

Sampling Date: 03/07/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 63



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD61598

 Lyndon Road Landfill
 Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the MDL

* JD61598-1	03/07/23	15:15 BH	03/09/23	AQ	Trip Blank Soil	LR-TB-030723
* JD61598-2	03/07/23	00:00 BH	03/09/23	SO	Soil	DUP-030723
JD61598-2A	03/07/23	00:00 BH	03/09/23	SO	Soil	DUP-030723
* JD61598-2C	03/07/23	00:00 BH	03/09/23	SO	Soil	DUP-030723
* JD61598-3	03/07/23	10:15 BH	03/09/23	SO	Soil	LR-TT01-0.0-0.2-030723
JD61598-3A	03/07/23	10:15 BH	03/09/23	SO	Soil	LR-TT01-0.0-0.2-030723
* JD61598-4	03/07/23	10:30 BH	03/09/23	SO	Soil	LR-TT01-0.2-1.0-030723
JD61598-4A	03/07/23	10:30 BH	03/09/23	SO	Soil	LR-TT01-0.2-1.0-030723
JD61598-4B	03/07/23	10:30 BH	03/09/23	SO	Soil	LR-TT01-0.2-1.0-030723
* JD61598-4C	03/07/23	10:30 BH	03/09/23	SO	Soil	LR-TT01-0.2-1.0-030723
* JD61598-5	03/07/23	11:40 BH	03/09/23	SO	Soil	LR-TT01-05-06-030723
JD61598-6	03/07/23	11:35 BH	03/09/23	SO	Soil	LR-TT01-FILL-030723

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD61598

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
* JD61598-7	03/07/23	11:10	BH	03/09/23	SO	Soil	LR-TT07-0.2-1.0-030723
JD61598-7A	03/07/23	11:10	BH	03/09/23	SO	Soil	LR-TT07-0.2-1.0-030723
JD61598-7B	03/07/23	11:10	BH	03/09/23	SO	Soil	LR-TT07-0.2-1.0-030723
* JD61598-7C	03/07/23	11:10	BH	03/09/23	SO	Soil	LR-TT07-0.2-1.0-030723
* JD61598-8	03/07/23	10:00	BH	03/09/23	SO	Soil	LR-TT07-04-05-030723
JD61598-8A	03/07/23	10:00	BH	03/09/23	SO	Soil	LR-TT07-04-05-030723
* JD61598-9	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.2-1.0-030723
JD61598-9A	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.2-1.0-030723
JD61598-9AD	03/07/23	14:00	BH	03/09/23	SO	Soil Dup/MSD	LR-TT02-0.2-1.0-030723_MSD
JD61598-9AS	03/07/23	14:00	BH	03/09/23	SO	Soil Matrix Spike	LR-TT02-0.2-1.0-030723_MS
JD61598-9B	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.2-1.0-030723
* JD61598-9C	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.2-1.0-030723
* JD61598-9D	03/07/23	14:00	BH	03/09/23	SO	Soil Dup/MSD	LR-TT02-0.2-1.0-030723_MSD

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD61598

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
* JD61598-9DC	03/07/23	14:00	BH	03/09/23	SO	Soil Dup/MSD	LR-TT02-0.2-1.0-030723_MSD
* JD61598-9S	03/07/23	14:00	BH	03/09/23	SO	Soil Matrix Spike	LR-TT02-0.2-1.0-030723_MS
* JD61598-10	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.0-0.2-030723
JD61598-10A	03/07/23	14:00	BH	03/09/23	SO	Soil	LR-TT02-0.0-0.2-030723
* JD61598-11	03/07/23	15:05	BH	03/09/23	SO	Soil	LR-TT03-0.0-0.2-030723
JD61598-11A	03/07/23	15:05	BH	03/09/23	SO	Soil	LR-TT03-0.0-0.2-030723
* JD61598-12	03/07/23	15:10	BH	03/09/23	SO	Soil	LR-TT03-0.2-1.0-030723
JD61598-12A	03/07/23	15:10	BH	03/09/23	SO	Soil	LR-TT03-0.2-1.0-030723
JD61598-12B	03/07/23	15:10	BH	03/09/23	SO	Soil	LR-TT03-0.2-1.0-030723
* JD61598-12C	03/07/23	15:10	BH	03/09/23	SO	Soil	LR-TT03-0.2-1.0-030723
* JD61598-13	03/07/23	15:15	BH	03/09/23	SO	Soil	LR-TT03-05-06-030723

* The following report applies to these samples only (7 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 2

Client Sample ID:	LR-TB-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-1	Date Received:	03/09/23
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1R02763.D	1	03/10/23 16:23	KD	n/a	n/a	V1R90
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane ^b	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^c	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane ^b	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TB-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-1	Date Received:	03/09/23
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK ^a	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	114%		80-120%
2037-26-5	Toluene-D8	92%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	1.44	25	ug/l	J
	Total TIC, Volatile		0	ug/l	

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- (c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	DUP-030723		
Lab Sample ID:	JD61598-2	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8260D	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I249046.D	1	03/10/23 13:00	CL	n/a	n/a	VI10110
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	0.013	0.0054	mg/kg	
71-43-2	Benzene	ND	0.00065	0.00060	mg/kg	
74-97-5	Bromochloromethane	ND	0.0065	0.00073	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0026	0.00056	mg/kg	
75-25-2	Bromoform	ND	0.0065	0.0018	mg/kg	
74-83-9	Bromomethane	ND	0.0065	0.0010	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.013	0.0032	mg/kg	
75-15-0	Carbon disulfide	ND	0.0026	0.00070	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0026	0.00081	mg/kg	
108-90-7	Chlorobenzene	ND	0.0026	0.00060	mg/kg	
75-00-3	Chloroethane	ND	0.0065	0.00077	mg/kg	
67-66-3	Chloroform ^b	ND	0.0026	0.00068	mg/kg	
74-87-3	Chloromethane	ND	0.0065	0.0026	mg/kg	
110-82-7	Cyclohexane	ND	0.0026	0.00086	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0026	0.00091	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0026	0.00073	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0013	0.00055	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0013	0.00071	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0013	0.00065	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0013	0.00065	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0065	0.00095	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0013	0.00065	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0013	0.00061	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0013	0.00086	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0013	0.0011	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0013	0.00080	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0026	0.00062	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0026	0.00062	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0026	0.00060	mg/kg	
100-41-4	Ethylbenzene	ND	0.0013	0.00059	mg/kg	
76-13-1	Freon 113	ND	0.0065	0.0035	mg/kg	
591-78-6	2-Hexanone ^a	ND	0.0065	0.0028	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	DUP-030723		
Lab Sample ID:	JD61598-2	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8260D	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.0026	0.0019	mg/kg	
79-20-9	Methyl Acetate	ND	0.0065	0.0018	mg/kg	
108-87-2	Methylcyclohexane	ND	0.0026	0.0011	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0013	0.00061	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0065	0.0030	mg/kg	
75-09-2	Methylene chloride	ND	0.0065	0.0034	mg/kg	
100-42-5	Styrene	ND	0.0026	0.00053	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0026	0.00078	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0026	0.00076	mg/kg	
108-88-3	Toluene	ND	0.0013	0.00069	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0065	0.0033	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0065	0.0033	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0026	0.00063	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0026	0.00072	mg/kg	
79-01-6	Trichloroethene	ND	0.0013	0.0010	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0065	0.00089	mg/kg	
75-01-4	Vinyl chloride	ND	0.0026	0.00063	mg/kg	
	m,p-Xylene	ND	0.0013	0.0012	mg/kg	
95-47-6	o-Xylene	ND	0.0013	0.00060	mg/kg	
1330-20-7	Xylene (total)	ND	0.0013	0.00060	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-124%
17060-07-0	1,2-Dichloroethane-D4	111%		75-133%
2037-26-5	Toluene-D8	103%		79-125%
460-00-4	4-Bromofluorobenzene	98%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	mg/kg	

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	DUP-030723	
Lab Sample ID:	JD61598-2	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8270E SW846 3546	Percent Solids: 73.5
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z162785.D	1	03/13/23 12:45	KH	03/11/23 11:30	OP45155	EZ8069
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.088	0.022	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.22	0.027	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.22	0.038	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.22	0.078	mg/kg	
51-28-5	2,4-Dinitrophenol ^a	ND	0.22	0.17	mg/kg	
534-52-1	4,6-Dinitro-o-cresol ^a	ND	0.22	0.047	mg/kg	
95-48-7	2-Methylphenol	ND	0.088	0.028	mg/kg	
	3&4-Methylphenol	ND	0.088	0.036	mg/kg	
88-75-5	2-Nitrophenol	ND	0.22	0.029	mg/kg	
100-02-7	4-Nitrophenol	ND	0.44	0.12	mg/kg	
87-86-5	Pentachlorophenol	ND	0.18	0.041	mg/kg	
108-95-2	Phenol	ND	0.088	0.023	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.22	0.029	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.22	0.033	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.22	0.026	mg/kg	
83-32-9	Acenaphthene	0.219	0.044	0.015	mg/kg	
208-96-8	Acenaphthylene	ND	0.044	0.022	mg/kg	
98-86-2	Acetophenone	ND	0.22	0.0095	mg/kg	
120-12-7	Anthracene	0.464	0.044	0.027	mg/kg	
1912-24-9	Atrazine	ND	0.088	0.019	mg/kg	
56-55-3	Benzo(a)anthracene	1.61	0.044	0.012	mg/kg	
50-32-8	Benzo(a)pyrene	1.30	0.044	0.020	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.79	0.044	0.019	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.648	0.044	0.022	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.591	0.044	0.021	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.088	0.017	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.088	0.011	mg/kg	
92-52-4	1,1'-Biphenyl	0.0073	0.088	0.0060	mg/kg	J
100-52-7	Benzaldehyde	0.120	0.22	0.011	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.088	0.010	mg/kg	
106-47-8	4-Chloroaniline	ND	0.22	0.016	mg/kg	
86-74-8	Carbazole	0.264	0.088	0.0064	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-2	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	73.5
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.088	0.017	mg/kg	
218-01-9	Chrysene	1.46	0.044	0.014	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.088	0.0094	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.088	0.019	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.088	0.016	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.088	0.014	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.044	0.014	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.044	0.022	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.088	0.037	mg/kg	
123-91-1	1,4-Dioxane	ND	0.044	0.029	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.204	0.044	0.019	mg/kg	
132-64-9	Dibenzofuran	0.0701	0.088	0.018	mg/kg	J
84-74-2	Di-n-butyl phthalate	0.0155	0.088	0.0072	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.088	0.011	mg/kg	
84-66-2	Diethyl phthalate	ND	0.088	0.0094	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.088	0.0078	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	2.11	0.088	0.010	mg/kg	B
206-44-0	Fluoranthene	2.66	0.044	0.020	mg/kg	
86-73-7	Fluorene	0.165	0.044	0.020	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.088	0.011	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.044	0.018	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.44	0.018	mg/kg	
67-72-1	Hexachloroethane	ND	0.22	0.022	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.892	0.044	0.021	mg/kg	
78-59-1	Isophorone	ND	0.088	0.0094	mg/kg	
91-57-6	2-Methylnaphthalene	0.0183	0.044	0.0099	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.22	0.010	mg/kg	
99-09-2	3-Nitroaniline	ND	0.22	0.011	mg/kg	
100-01-6	4-Nitroaniline	ND	0.22	0.011	mg/kg	
91-20-3	Naphthalene	0.0212	0.044	0.012	mg/kg	J
98-95-3	Nitrobenzene	ND	0.088	0.017	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.088	0.013	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.22	0.016	mg/kg	
85-01-8	Phenanthrene	1.70	0.044	0.015	mg/kg	
129-00-0	Pyrene	2.21	0.044	0.014	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.22	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-99%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-030723		
Lab Sample ID:	JD61598-2	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8270E SW846 3546	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	40%		10-96%
118-79-6	2,4,6-Tribromophenol	48%		10-123%
4165-60-0	Nitrobenzene-d5	42%		10-109%
321-60-8	2-Fluorobiphenyl	42%		11-109%
1718-51-0	Terphenyl-d14	42%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.69	.21	mg/kg	J
	system artifact	3.66	.19	mg/kg	J
	system artifact/aldol-condensation	3.69	.24	mg/kg	J
	Phenanthrene methyl	9.47	.32	mg/kg	J
	Phenanthrene methyl	9.51	.32	mg/kg	J
	unknown	10.36	.22	mg/kg	J
	unknown	11.29	.2	mg/kg	J
	Pyrene methyl	11.32	.2	mg/kg	J
	Pyrene methyl	11.42	.2	mg/kg	J
	unknown	11.69	.34	mg/kg	J
	Benzo[b]naphtho[-d]thiophene	12.27	.27	mg/kg	J
	unknown	12.43	.33	mg/kg	J
	Chrysene methyl	13.29	.18	mg/kg	J
1090-13-7	5,12-Naphthacenedione	13.77	.23	mg/kg	JN
	unknown PAH substance	14.39	.41	mg/kg	J
	unknown	14.53	.19	mg/kg	J
	unknown	14.58	.25	mg/kg	J
	unknown PAH substance	14.62	.93	mg/kg	J
	unknown	15.01	.29	mg/kg	J
	unknown	15.03	.18	mg/kg	J
	unknown	15.49	.31	mg/kg	J
	unknown	15.93	.21	mg/kg	J
	unknown PAH substance	16.05	.29	mg/kg	J
	unknown PAH substance	16.38	.3	mg/kg	J
	unknown PAH substance	16.42	.2	mg/kg	J
	unknown PAH substance	16.80	.49	mg/kg	J
	Total TIC, Semi-Volatile		6.86	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	DUP-030723	
Lab Sample ID:	JD61598-2	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8151A SW846 3546	Percent Solids: 73.5
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4025.D	1	03/12/23 13:34	TL	03/11/23 11:45	OP45156	G9G217
Run #2 ^a	9G4133.D	1	03/16/23 13:26	MLC	03/11/23 11:45	OP45156	G9G223

	Initial Weight	Final Volume
Run #1	15.8 g	5.0 ml
Run #2	15.8 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.022	0.012	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.0043	0.0024	mg/kg	
93-76-5	2,4,5-T	ND	0.0043	0.0021	mg/kg	
75-99-0	Dalapon	ND	0.0043	0.0026	mg/kg	
1918-00-9	Dicamba	ND	0.0043	0.0022	mg/kg	
120-36-5	Dichloroprop	ND	0.022	0.012	mg/kg	
88-85-7	Dinoseb ^b	ND	0.022	0.014	mg/kg	
94-74-6	MCPA	ND	2.2	1.2	mg/kg	
93-65-2	MCPP	ND	2.2	1.8	mg/kg	
87-86-5	Pentachlorophenol	0.0026	0.0022	0.00070	mg/kg	
94-82-6	2,4-DB ^b	ND	0.022	0.012	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^c	4% ^c	10-138%
19719-28-9	2,4-DCAA	3% ^c	4% ^c	10-138%

(a) Confirmation run.

(b) Associated CCV outside of control limits low.

(c) Outside of in house control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	DUP-030723		
Lab Sample ID:	JD61598-2	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8081B SW846 3546	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89282.D	1	03/13/23 14:19	MLC	03/11/23 08:30	OP45152	G6G3231
Run #2	6G89361.D	5	03/15/23 16:57	MLC	03/11/23 08:30	OP45152	G6G3235

	Initial Weight	Final Volume
Run #1	16.8 g	10.0 ml
Run #2	16.8 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00081	0.00067	mg/kg	
319-84-6	alpha-BHC	ND	0.00081	0.00066	mg/kg	
319-85-7	beta-BHC	ND	0.00081	0.00073	mg/kg	
319-86-8	delta-BHC	ND	0.00081	0.00078	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00081	0.00060	mg/kg	
5103-71-9	alpha-Chlordane ^a	0.0158	0.00081	0.00065	mg/kg	
5103-74-2	gamma-Chlordane ^a	0.0148	0.00081	0.00037	mg/kg	
60-57-1	Dieldrin	0.0104	0.00081	0.00056	mg/kg	
72-54-8	4,4' -DDD	0.0040	0.00081	0.00074	mg/kg	
72-55-9	4,4' -DDE ^a	0.0039	0.00081	0.00071	mg/kg	
50-29-3	4,4' -DDT	0.0805 ^b	0.0040	0.0036	mg/kg	B
72-20-8	Endrin	ND	0.00081	0.00063	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00081	0.00063	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00081	0.00046	mg/kg	
959-98-8	Endosulfan-I	ND	0.00081	0.00047	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00081	0.00051	mg/kg	
76-44-8	Heptachlor	ND	0.00081	0.00070	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00081	0.00057	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	0.00064	mg/kg	
53494-70-5	Endrin ketone	ND	0.00081	0.00059	mg/kg	
8001-35-2	Toxaphene	ND	0.020	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%	98%	13-162%
877-09-8	Tetrachloro-m-xylene	104%	97%	13-162%
2051-24-3	Decachlorobiphenyl	61%	78%	10-180%
2051-24-3	Decachlorobiphenyl	130%	127%	10-180%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	DUP-030723	
Lab Sample ID:	JD61598-2	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8082A SW846 3546	Percent Solids: 73.5
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2498644.D	1	03/13/23 13:14	MLC	03/11/23 08:30	OP45153	GXX8112
Run #2							

	Initial Weight	Final Volume
Run #1	16.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.040	0.019	mg/kg	
11104-28-2	Aroclor 1221	ND	0.040	0.025	mg/kg	
11141-16-5	Aroclor 1232	ND	0.040	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.040	0.017	mg/kg	
12672-29-6	Aroclor 1248	ND	0.040	0.036	mg/kg	
11097-69-1	Aroclor 1254	ND	0.040	0.022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.040	0.017	mg/kg	
11100-14-4	Aroclor 1268	ND	0.040	0.017	mg/kg	
37324-23-5	Aroclor 1262	0.0896	0.040	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		10-174%
877-09-8	Tetrachloro-m-xylene	109%		10-174%
2051-24-3	Decachlorobiphenyl	86%		10-195%
2051-24-3	Decachlorobiphenyl	102%		10-195%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DUP-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-2	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	6440	68	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Antimony	< 2.7	2.7	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Arsenic	4.6	2.7	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Barium	242	27	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Beryllium	0.38	0.27	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Cadmium	< 0.68	0.68	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Calcium	32000	1400	mg/kg	2	03/11/23	03/15/23	ND	SW846 6010D ³	SW846 3050B ⁴
Chromium	12.6	1.4	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Cobalt	< 6.8	6.8	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Copper	17.8	3.4	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Iron	12700	68	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Lead	1670	5.4	mg/kg	2	03/11/23	03/15/23	ND	SW846 6010D ³	SW846 3050B ⁴
Magnesium	10600	680	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Manganese	300	2.0	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Mercury	0.092	0.044	mg/kg	1	03/10/23	03/12/23	LM	SW846 7471B ¹	SW846 7471B ⁵
Nickel	10.1	5.4	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Potassium	< 1400	1400	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Selenium	< 2.7	2.7	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Silver	< 0.68	0.68	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Sodium	< 1400	1400	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Thallium	< 1.4	1.4	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Vanadium	16.7	6.8	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴
Zinc	266	6.8	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA53849

(2) Instrument QC Batch: MA53854

(3) Instrument QC Batch: MA53864

(4) Prep QC Batch: MP38342

(5) Prep QC Batch: MP38363

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	DUP-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-2	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.33	0.33	mg/kg	1	03/14/23 11:34	MM	SW846 9012B/LACHAT
Solids, Percent	73.5		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
Total Organic Carbon	13100	140	mg/kg	1	03/13/23 15:07	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	DUP-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-2C	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	73.5
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.71		su	1	03/17/23 22:50	MM	SW846 9045D

(a) Temp of pH Reading: 21.2 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT01-0.0-0.2-030723	
Lab Sample ID:	JD61598-3	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8270E SW846 3546	Percent Solids: 3.2
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z162786.D	1	03/13/23 13:09	KH	03/11/23 11:30	OP45155	EZ8069
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.68	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	50%		10-109%
321-60-8	2-Fluorobiphenyl	49%		11-109%
1718-51-0	Terphenyl-d14	47%		10-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT01-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-4	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	72.0
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	72		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
Total Organic Carbon	33100	140	mg/kg	1	03/13/23 16:05	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

Report of Analysis

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Client Sample ID: LR-TT01-0.2-1.0-030723**Lab Sample ID:** JD61598-4C**Matrix:** SO - Soil**Project:** Lyndon Road Landfill**Date Sampled:** 03/07/23**Date Received:** 03/09/23**Percent Solids:** 72.0**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.55		su	1	03/17/23 22:51	MM	SW846 9045D

(a) Temp of pH Reading: 21.1 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT01-05-06-030723		
Lab Sample ID:	JD61598-5	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8260D SW846 1311	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F4047.D	5	03/21/23 21:23	NW	03/13/23 11:00	GP45583	V1F133
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK) ^a	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform ^b	0.0040	D022	6.0	0.0050	0.0025	mg/l	JB
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-120%
17060-07-0	1,2-Dichloroethane-D4	104%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	100%		72-122%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Indicates analyte found in associated leachate blank.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT01-05-06-030723	
Lab Sample ID:	JD61598-5	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8270E SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR854.D	1	03/17/23 14:02	JY	03/16/23 09:02	OP45222	ECR35
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		10-73%
4165-62-2	Phenol-d5	36%		10-64%
118-79-6	2,4,6-Tribromophenol	95%		31-130%
4165-60-0	Nitrobenzene-d5	92%		28-126%
321-60-8	2-Fluorobiphenyl	79%		26-114%
1718-51-0	Terphenyl-d14	84%		16-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT01-05-06-030723	
Lab Sample ID:	JD61598-5	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8151A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4161.D	1	03/18/23 00:12	RK	03/16/23 08:35	OP45223	G9G225
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Herbicide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.0033	0.00098	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0010	0.00020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	74%		13-169%
19719-28-9	2,4-DCAA	75%		13-169%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT01-05-06-030723		
Lab Sample ID:	JD61598-5	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8081B SW846 3510C	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89418.D	1	03/16/23 23:01	RK	03/16/23 10:20	OP45224	G6G3238
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Pesticide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.000067	0.000040	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0033	0.0014	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.000067	0.000040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.000067	0.000030	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.000067	0.000040	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00013	0.000045	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0017	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		30-137%
877-09-8	Tetrachloro-m-xylene	73%		30-137%
2051-24-3	Decachlorobiphenyl	52%		10-137%
2051-24-3	Decachlorobiphenyl	74%		10-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT01-05-06-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-5	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Barium	< 0.20	D005	100	0.20	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Cadmium	< 0.0040	D006	1.0	0.0040	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Lead	< 0.10	D008	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	03/14/23	03/16/23	LM	SW846 7470A ¹ SW846 7470A ⁴
Selenium	< 0.10	D010	1.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³

(1) Instrument QC Batch: MA53859

(2) Instrument QC Batch: MA53865

(3) Prep QC Batch: MP38397

(4) Prep QC Batch: MP38426

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 7/1/11)

Report of Analysis

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Client Sample ID: LR-TT01-05-06-030723**Lab Sample ID:** JD61598-5**Matrix:** SO - Soil**Project:** Lyndon Road Landfill**Date Sampled:** 03/07/23**Date Received:** 03/09/23**Percent Solids:** n/a**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.16		su	1	03/14/23 17:26	MM	SW846 9045D

(a) Temp of pH Reading: 13.2 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT07-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-7	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	82.0
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
Total Organic Carbon	9650	120	mg/kg	1	03/13/23 16:21	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

Report of Analysis

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Client Sample ID: LR-TT07-0.2-1.0-030723**Lab Sample ID:** JD61598-7C**Matrix:** SO - Soil**Project:** Lyndon Road Landfill**Date Sampled:** 03/07/23**Date Received:** 03/09/23**Percent Solids:** 82.0**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.76		su	1	03/17/23 22:48	MM	SW846 9045D

(a) Temp of pH Reading: 21.2 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT07-04-05-030723		
Lab Sample ID:	JD61598-8	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8260D SW846 1311	Percent Solids:	79.0
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F4048.D	5	03/21/23 21:49	NW	03/13/23 11:00	GP45583	V1F133
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK) ^a	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform ^b	0.0040	D022	6.0	0.0050	0.0025	mg/l	JB
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	107%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	101%		72-122%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Indicates analyte found in associated leachate blank.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT07-04-05-030723	
Lab Sample ID:	JD61598-8	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8270E SW846 3546	Percent Solids: 79.0
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z162787.D	1	03/13/23 13:33	KH	03/11/23 11:30	OP45155	EZ8069
Run #2							

	Initial Weight	Final Volume
Run #1	32.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.039	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	40%		10-109%
321-60-8	2-Fluorobiphenyl	41%		11-109%
1718-51-0	Terphenyl-d14	41%		10-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT07-04-05-030723		
Lab Sample ID:	JD61598-8	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8270E SW846 3510C	Percent Solids:	79.0
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR855.D	1	03/17/23 14:20	JY	03/16/23 09:02	OP45222	ECR35
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		10-73%
4165-62-2	Phenol-d5	32%		10-64%
118-79-6	2,4,6-Tribromophenol	96%		31-130%
4165-60-0	Nitrobenzene-d5	86%		28-126%
321-60-8	2-Fluorobiphenyl	76%		26-114%
1718-51-0	Terphenyl-d14	81%		16-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT07-04-05-030723	
Lab Sample ID:	JD61598-8	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8151A SW846 3510C	Percent Solids: 79.0
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4162.D	1	03/18/23 00:34	RK	03/16/23 08:35	OP45223	G9G225
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Herbicide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	0.0014	D016	10	0.0033	0.00098	mg/l	J
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0010	0.00020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	70%		13-169%
19719-28-9	2,4-DCAA	80%		13-169%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT07-04-05-030723		
Lab Sample ID:	JD61598-8	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8081B SW846 3510C	Percent Solids:	79.0
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89419.D	1	03/16/23 23:19	RK	03/16/23 10:20	OP45224	G6G3238
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Pesticide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.000067	0.000040	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0033	0.0014	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.000067	0.000040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.000067	0.000030	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.000067	0.000040	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00013	0.000045	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0017	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		30-137%
877-09-8	Tetrachloro-m-xylene	72%		30-137%
2051-24-3	Decachlorobiphenyl	49%		10-137%
2051-24-3	Decachlorobiphenyl	72%		10-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: LR-TT07-04-05-030723**Lab Sample ID:** JD61598-8**Matrix:** SO - Soil**Date Sampled:** 03/07/23**Date Received:** 03/09/23**Percent Solids:** 79.0**Project:** Lyndon Road Landfill**Metals Analysis, TCLP Leachate SW846 1311**

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Barium	0.70	D005	100	0.20	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Cadmium	0.0060	D006	1.0	0.0040	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Lead	< 0.10	D008	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	03/14/23	03/16/23	LM	SW846 7470A ¹ SW846 7470A ⁴
Selenium	< 0.10	D010	1.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³

(1) Instrument QC Batch: MA53859

(2) Instrument QC Batch: MA53865

(3) Prep QC Batch: MP38397

(4) Prep QC Batch: MP38426

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 7/1/11)

Report of Analysis

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Client Sample ID:	LR-TT07-04-05-030723	
Lab Sample ID:	JD61598-8	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
		Percent Solids: 79.0
Project:	Lyndon Road Landfill	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
pH ^a	7.75		su	1	03/14/23 17:27	MM	SW846 9045D

(a) Temp of pH Reading: 13.1 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT02-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-9	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I249047.D	1	03/10/23 13:22	CL	n/a	n/a	VI10110
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	0.0349	0.012	0.0048	mg/kg	
71-43-2	Benzene	ND	0.00058	0.00053	mg/kg	
74-97-5	Bromochloromethane	ND	0.0058	0.00065	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0023	0.00050	mg/kg	
75-25-2	Bromoform	ND	0.0058	0.0016	mg/kg	
74-83-9	Bromomethane	ND	0.0058	0.00089	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.012	0.0028	mg/kg	
75-15-0	Carbon disulfide	ND	0.0023	0.00062	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0023	0.00072	mg/kg	
108-90-7	Chlorobenzene	ND	0.0023	0.00053	mg/kg	
75-00-3	Chloroethane	ND	0.0058	0.00069	mg/kg	
67-66-3	Chloroform ^b	ND	0.0023	0.00060	mg/kg	
74-87-3	Chloromethane	ND	0.0058	0.0023	mg/kg	
110-82-7	Cyclohexane	ND	0.0023	0.00076	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0023	0.00081	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0023	0.00065	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0012	0.00049	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0012	0.00064	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0012	0.00058	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0012	0.00057	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0058	0.00085	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0012	0.00058	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0012	0.00055	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0012	0.00076	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0012	0.00098	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0012	0.00071	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0023	0.00055	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0023	0.00055	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0023	0.00053	mg/kg	
100-41-4	Ethylbenzene	ND	0.0012	0.00053	mg/kg	
76-13-1	Freon 113	ND	0.0058	0.0031	mg/kg	
591-78-6	2-Hexanone ^c	ND	0.0058	0.0025	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT02-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-9	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.0023	0.0017	mg/kg	
79-20-9	Methyl Acetate	0.0058	0.0058	0.0016	mg/kg	
108-87-2	Methylcyclohexane	ND	0.0023	0.0010	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0012	0.00055	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0058	0.0026	mg/kg	
75-09-2	Methylene chloride	ND	0.0058	0.0030	mg/kg	
100-42-5	Styrene	ND	0.0023	0.00047	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0023	0.00070	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0023	0.00067	mg/kg	
108-88-3	Toluene	ND	0.0012	0.00061	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0058	0.0029	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0058	0.0029	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0023	0.00056	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0023	0.00064	mg/kg	
79-01-6	Trichloroethene	ND	0.0012	0.00089	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0058	0.00080	mg/kg	
75-01-4	Vinyl chloride	ND	0.0023	0.00056	mg/kg	
	m,p-Xylene	ND	0.0012	0.0010	mg/kg	
95-47-6	o-Xylene	ND	0.0012	0.00053	mg/kg	
1330-20-7	Xylene (total)	ND	0.0012	0.00053	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-124%
17060-07-0	1,2-Dichloroethane-D4	109%		75-133%
2037-26-5	Toluene-D8	102%		79-125%
460-00-4	4-Bromofluorobenzene	100%		58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	mg/kg	

- (a) Associated CCV outside of control limits high.
 (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
 (c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT02-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-9	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z162784.D	1	03/13/23 12:21	KH	03/11/23 11:30	OP45155	EZ8069
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.083	0.020	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.21	0.025	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.21	0.035	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.21	0.074	mg/kg	
51-28-5	2,4-Dinitrophenol ^a	ND	0.21	0.16	mg/kg	
534-52-1	4,6-Dinitro-o-cresol ^a	ND	0.21	0.044	mg/kg	
95-48-7	2-Methylphenol	ND	0.083	0.026	mg/kg	
	3&4-Methylphenol	ND	0.083	0.034	mg/kg	
88-75-5	2-Nitrophenol	ND	0.21	0.027	mg/kg	
100-02-7	4-Nitrophenol	ND	0.41	0.11	mg/kg	
87-86-5	Pentachlorophenol	ND	0.17	0.039	mg/kg	
108-95-2	Phenol	ND	0.083	0.022	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.21	0.027	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.21	0.031	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.21	0.025	mg/kg	
83-32-9	Acenaphthene	0.0169	0.041	0.014	mg/kg	J
208-96-8	Acenaphthylene	ND	0.041	0.021	mg/kg	
98-86-2	Acetophenone	ND	0.21	0.0089	mg/kg	
120-12-7	Anthracene	0.0350	0.041	0.025	mg/kg	J
1912-24-9	Atrazine	ND	0.083	0.018	mg/kg	
56-55-3	Benzo(a)anthracene	0.161	0.041	0.012	mg/kg	
50-32-8	Benzo(a)pyrene	0.160	0.041	0.019	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.204	0.041	0.018	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0936	0.041	0.021	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0751	0.041	0.019	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.083	0.016	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.083	0.010	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.083	0.0057	mg/kg	
100-52-7	Benzaldehyde	0.0774	0.21	0.010	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.083	0.0098	mg/kg	
106-47-8	4-Chloroaniline	ND	0.21	0.015	mg/kg	
86-74-8	Carbazole	0.0174	0.083	0.0060	mg/kg	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT02-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-9	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.083	0.016	mg/kg	
218-01-9	Chrysene	0.149	0.041	0.013	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.083	0.0089	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.083	0.018	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.083	0.015	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.083	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.041	0.013	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.041	0.021	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.083	0.034	mg/kg	
123-91-1	1,4-Dioxane	ND	0.041	0.027	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0334	0.041	0.018	mg/kg	J
132-64-9	Dibenzofuran	ND	0.083	0.017	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.083	0.0067	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.083	0.010	mg/kg	
84-66-2	Diethyl phthalate	ND	0.083	0.0088	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.083	0.0074	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0524	0.083	0.0097	mg/kg	JB
206-44-0	Fluoranthene	0.259	0.041	0.018	mg/kg	
86-73-7	Fluorene	ND	0.041	0.019	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.083	0.010	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.041	0.017	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.41	0.016	mg/kg	
67-72-1	Hexachloroethane	ND	0.21	0.020	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.109	0.041	0.019	mg/kg	
78-59-1	Isophorone	ND	0.083	0.0089	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.041	0.0093	mg/kg	
88-74-4	2-Nitroaniline	ND	0.21	0.0098	mg/kg	
99-09-2	3-Nitroaniline	ND	0.21	0.010	mg/kg	
100-01-6	4-Nitroaniline	ND	0.21	0.011	mg/kg	
91-20-3	Naphthalene	ND	0.041	0.012	mg/kg	
98-95-3	Nitrobenzene	ND	0.083	0.016	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.083	0.012	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.21	0.015	mg/kg	
85-01-8	Phenanthrene	0.129	0.041	0.014	mg/kg	
129-00-0	Pyrene	0.220	0.041	0.013	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.21	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	24%		10-99%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT02-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-9	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	27%		10-96%
118-79-6	2,4,6-Tribromophenol	35%		10-123%
4165-60-0	Nitrobenzene-d5	27%		10-109%
321-60-8	2-Fluorobiphenyl	29%		11-109%
1718-51-0	Terphenyl-d14	31%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	10.62	.17	mg/kg	J
	unknown	11.68	.31	mg/kg	J
5155-70-4	1-Phenanthrenecarboxylic acid, 1,2,3,4,4	12.42	.31	mg/kg	JN
	unknown	15.49	.25	mg/kg	J
	-Sitosterol	16.80	.22	mg/kg	J
	alkane	17.04	.27	mg/kg	J
	Total TIC, Semi-Volatile		1.53	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT02-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-9	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8151A SW846 3546		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4026.D	1	03/12/23 13:56	TL	03/11/23 11:45	OP45156	G9G217
Run #2 ^a	9G4134.D	1	03/16/23 13:48	MLC	03/11/23 11:45	OP45156	G9G223

	Initial Weight	Final Volume
Run #1	16.7 g	5.0 ml
Run #2	16.7 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.019	0.010	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.0038	0.0021	mg/kg	
93-76-5	2,4,5-T	ND	0.0038	0.0019	mg/kg	
75-99-0	Dalapon	ND	0.0038	0.0023	mg/kg	
1918-00-9	Dicamba	ND	0.0038	0.0020	mg/kg	
120-36-5	Dichloroprop	ND	0.019	0.010	mg/kg	
88-85-7	Dinoseb	ND	0.019	0.012	mg/kg	
94-74-6	MCPA	ND	1.9	1.0	mg/kg	
93-65-2	MCPP	ND	1.9	1.6	mg/kg	
87-86-5	Pentachlorophenol	0.0017	0.0019	0.00061	mg/kg	J
94-82-6	2,4-DB	ND	0.019	0.010	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^b	5% ^b	10-138%
19719-28-9	2,4-DCAA	4% ^b	4% ^b	10-138%

(a) Confirmation run.

(b) Outside of in house control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT02-0.2-1.0-030723		
Lab Sample ID:	JD61598-9	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8081B SW846 3546	Percent Solids:	79.6
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89281.D	1	03/13/23 14:01	MLC	03/11/23 08:30	OP45152	G6G3231
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00079	0.00065	mg/kg	
319-84-6	alpha-BHC	ND	0.00079	0.00064	mg/kg	
319-85-7	beta-BHC	ND	0.00079	0.00071	mg/kg	
319-86-8	delta-BHC	ND	0.00079	0.00075	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00079	0.00058	mg/kg	
5103-71-9	alpha-Chlordane ^a	0.0073	0.00079	0.00063	mg/kg	
5103-74-2	gamma-Chlordane ^a	0.0057	0.00079	0.00036	mg/kg	
60-57-1	Dieldrin	0.0047	0.00079	0.00054	mg/kg	
72-54-8	4,4'-DDD	0.0012	0.00079	0.00072	mg/kg	
72-55-9	4,4'-DDE ^a	0.0018	0.00079	0.00069	mg/kg	
50-29-3	4,4'-DDT ^a	0.0034	0.00079	0.00070	mg/kg	B
72-20-8	Endrin	ND	0.00079	0.00061	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00079	0.00061	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00079	0.00045	mg/kg	
959-98-8	Endosulfan-I	ND	0.00079	0.00045	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00079	0.00049	mg/kg	
76-44-8	Heptachlor	ND	0.00079	0.00068	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00079	0.00055	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	0.00062	mg/kg	
53494-70-5	Endrin ketone	ND	0.00079	0.00057	mg/kg	
8001-35-2	Toxaphene	ND	0.020	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		13-162%
877-09-8	Tetrachloro-m-xylene	61%		13-162%
2051-24-3	Decachlorobiphenyl	40%		10-180%
2051-24-3	Decachlorobiphenyl	81%		10-180%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT02-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-9	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8082A SW846 3546		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2498643.D	1	03/13/23 12:57	MLC	03/11/23 08:30	OP45153	GXX8112
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.039	0.018	mg/kg	
11104-28-2	Aroclor 1221	ND	0.039	0.024	mg/kg	
11141-16-5	Aroclor 1232	ND	0.039	0.025	mg/kg	
53469-21-9	Aroclor 1242	ND	0.039	0.016	mg/kg	
12672-29-6	Aroclor 1248	ND	0.039	0.035	mg/kg	
11097-69-1	Aroclor 1254	ND	0.039	0.021	mg/kg	
11096-82-5	Aroclor 1260	ND	0.039	0.017	mg/kg	
11100-14-4	Aroclor 1268	ND	0.039	0.017	mg/kg	
37324-23-5	Aroclor 1262	0.0706	0.039	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		10-174%
877-09-8	Tetrachloro-m-xylene	69%		10-174%
2051-24-3	Decachlorobiphenyl	59%		10-195%
2051-24-3	Decachlorobiphenyl	70%		10-195%

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: LR-TT02-0.2-1.0-030723**Lab Sample ID:** JD61598-9**Matrix:** SO - Soil**Date Sampled:** 03/07/23**Date Received:** 03/09/23**Percent Solids:** 79.6**Project:** Lyndon Road Landfill

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6100	61	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Antimony	< 2.4	2.4	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Arsenic	4.2	2.4	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Barium	76.1	24	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Beryllium	0.37	0.24	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Cadmium	< 0.61	0.61	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Calcium	28500	1200	mg/kg	2	03/11/23	03/15/23	ND	SW846 6010D ³
Chromium	9.1	1.2	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Cobalt	< 6.1	6.1	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Copper	13.3	3.0	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Iron	12000	61	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Lead	287	2.4	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Magnesium	10200	610	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Manganese	292	1.8	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Mercury	0.082	0.038	mg/kg	1	03/10/23	03/12/23	LM	SW846 7471B ¹
Nickel	8.8	4.9	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Potassium	< 1200	1200	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Selenium	< 2.4	2.4	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Silver	< 0.61	0.61	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Sodium	< 1200	1200	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Thallium	< 1.2	1.2	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Vanadium	15.2	6.1	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²
Zinc	93.8	6.1	mg/kg	1	03/11/23	03/13/23	ND	SW846 6010D ²

(1) Instrument QC Batch: MA53849

(2) Instrument QC Batch: MA53854

(3) Instrument QC Batch: MA53864

(4) Prep QC Batch: MP38342

(5) Prep QC Batch: MP38363

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT02-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-9	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	79.6
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.31	0.31	mg/kg	1	03/14/23 11:37	MM	SW846 9012B/LACHAT
Solids, Percent	79.6		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
Total Organic Carbon	11100	130	mg/kg	1	03/13/23 16:51	MB	LLOYD KAHN 1988 MOD
pH ^a	7.77		su	1	03/14/23 17:31	MM	SW846 9045D

(a) Temp of pH Reading: 13.3 Deg. C

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: LR-TT02-0.2-1.0-030723**Lab Sample ID:** JD61598-9C**Matrix:** SO - Soil**Project:** Lyndon Road Landfill**Date Sampled:** 03/07/23**Date Received:** 03/09/23**Percent Solids:** 79.6**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.56		su	1	03/17/23 22:46	MM	SW846 9045D

(a) Temp of pH Reading: 21.2 Deg. C

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT02-0.2-1.0-030723_MSD	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-9DC	Date Received:	03/09/23
Matrix:	SO - Soil Dup/MSD	Percent Solids:	79.6
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.73		su	1	03/20/23 19:12	MM	SW846 9045D

(a) Temp of pH Reading: 19.6 Deg. C

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT02-0.0-0.2-030723	
Lab Sample ID:	JD61598-10	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8270E SW846 3546	Percent Solids: 75.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z162788.D	1	03/13/23 13:57	KH	03/11/23 11:30	OP45155	EZ8069
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.043	0.028	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	41%		10-109%
321-60-8	2-Fluorobiphenyl	41%		11-109%
1718-51-0	Terphenyl-d14	41%		10-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT03-0.0-0.2-030723	
Lab Sample ID:	JD61598-11	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8270E SW846 3546	Percent Solids: 75.9
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z162789.D	1	03/13/23 14:21	KH	03/11/23 11:30	OP45155	EZ8069
Run #2							

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.042	0.028	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	47%		10-109%
321-60-8	2-Fluorobiphenyl	46%		11-109%
1718-51-0	Terphenyl-d14	46%		10-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT03-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-12	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	83.5
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.5		%	1	03/10/23 16:30	MK	SM2540 G 18TH ED MOD
Total Organic Carbon	5570	120	mg/kg	1	03/13/23 17:07	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT03-0.2-1.0-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-12C	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	83.5
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.62		su	1	03/17/23 22:52	MM	SW846 9045D

(a) Temp of pH Reading: 21.1 Deg. C

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT03-05-06-030723		
Lab Sample ID:	JD61598-13	Date Sampled:	03/07/23
Matrix:	SO - Soil	Date Received:	03/09/23
Method:	SW846 8260D SW846 1311	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F4049.D	5	03/21/23 22:14	NW	03/13/23 11:00	GP45583	V1F133
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK) ^a	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform ^b	0.0039	D022	6.0	0.0050	0.0025	mg/l	JB
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	106%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	101%		72-122%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Indicates analyte found in associated leachate blank.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT03-05-06-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-13	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR856.D	1	03/17/23 14:37	JY	03/16/23 09:02	OP45222	ECR35
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-73%
4165-62-2	Phenol-d5	29%		10-64%
118-79-6	2,4,6-Tribromophenol	86%		31-130%
4165-60-0	Nitrobenzene-d5	79%		28-126%
321-60-8	2-Fluorobiphenyl	70%		26-114%
1718-51-0	Terphenyl-d14	74%		16-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT03-05-06-030723	
Lab Sample ID:	JD61598-13	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8151A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4165.D	1	03/18/23 01:39	RK	03/16/23 08:35	OP45223	G9G225
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Herbicide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.0033	0.00098	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0010	0.00020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	60%		13-169%
19719-28-9	2,4-DCAA	81%		13-169%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT03-05-06-030723	
Lab Sample ID:	JD61598-13	Date Sampled: 03/07/23
Matrix:	SO - Soil	Date Received: 03/09/23
Method:	SW846 8081B SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89420.D	1	03/16/23 23:37	RK	03/16/23 10:20	OP45224	G6G3238
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Pesticide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.000067	0.000040	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0033	0.0014	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.000067	0.000040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.000067	0.000030	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.000067	0.000040	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00013	0.000045	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0017	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		30-137%
877-09-8	Tetrachloro-m-xylene	86%		30-137%
2051-24-3	Decachlorobiphenyl	70%		10-137%
2051-24-3	Decachlorobiphenyl	94%		10-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT03-05-06-030723	Date Sampled:	03/07/23
Lab Sample ID:	JD61598-13	Date Received:	03/09/23
Matrix:	SO - Soil	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Barium	< 0.20	D005	100	0.20	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Cadmium	< 0.0040	D006	1.0	0.0040	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Lead	< 0.10	D008	5.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	03/14/23	03/16/23	LM	SW846 7470A ¹ SW846 7470A ⁴
Selenium	< 0.10	D010	1.0	0.10	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	03/14/23	03/15/23	ND	SW846 6010D ² SW846 3010A ³

(1) Instrument QC Batch: MA53859

(2) Instrument QC Batch: MA53865

(3) Prep QC Batch: MP38397

(4) Prep QC Batch: MP38426

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 7/1/11)

Report of Analysis

Page 1 of 1

Client Sample ID: LR-TT03-05-06-030723**Lab Sample ID:** JD61598-13**Matrix:** SO - Soil**Project:** Lyndon Road Landfill**Date Sampled:** 03/07/23**Date Received:** 03/09/23**Percent Solids:** n/a**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH ^a	7.81		su	1	03/14/23 17:32	MM	SW846 9045D

(a) Temp of pH Reading: 13.6 Deg. C

RL = Reporting Limit

1354

www.sgs.com/ehsusa

Client / Reporting Information

Page 1 of 2

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 2 of 2

SGS Sample Receipt Summary

Job Number: jd61598

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - TEST TRENCH -

Date / Time Received: 3/9/2023 10:00:00 AM

Delivery Method: FEDEX

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (1.1);

Cooler Temps (Corrected) °C: Cooler 1: (1.1);

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____

Comments

1). Sample "LR-EB-01-030723" was received with JD61586 as opposed to this job. Please confirm.

JD61598: Chain of Custody

Page 3 of 6

Responded to by: Marie Meidhof

Response Date: 3/13

Ok to proceed with that sample on JD61586

JD61598: Chain of Custody
Page 4 of 6

Job Change Order: JD61598

Requested Date:	3/14/2023	Received Date:	3/9/2023
Account Name:	Ramboll Americas	Due Date:	3/21/2023
Project Description:	Lyndon Road Landfill	Deliverable:	NYASPB
C/O Initiated By:	MARIE_MEI	PM:	MM
		TAT (Days):	7

=====

Sample #:	JD61598-9D	Dept:	
Client ID:	LR-TT02-0-2-1.0-030723_MSD	TAT:	7
Change:	Add PHTEMP		

=====

Sample #:	JD61598-12	Dept:	
Client ID:	LR-TT03-0-2-1.0-030723	TAT:	7
Change:	Add PHTEMP		

=====

Sample #:	JD61598-2	Dept:	
Client ID:	DUP-030723	TAT:	7
Change:	Add PHTEMP		

=====

Sample #:	JD61598-4	Dept:	
Client ID:	LR-TT01-0-2-1.0-030723	TAT:	7
Change:	Add PHTEMP		

Above Changes Per:

Date/Time: 3/14/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD61598: Chain of Custody
Page 6 of 6

Sample #: JD61598-7
Client ID: LR-TT07-0.2-1.0-030723
Change: Add PHTEMP
Dept:
TAT: 7

Sample #: JD61598-9
Client ID: LR-TT02-0.2-1.0-030723
Change: Add PHTEMP
Dept:
TAT: 7

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD61785

Sampling Date: 03/10/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 54



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD61785

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

* JD61785-1	03/10/23	09:30	BH	03/10/23	AQ	Trip Blank Soil	LR-TB-031023
JD61785-2	03/10/23	12:30	BH	03/10/23	AQ	Equipment Blank	LR-EB-031023
* JD61785-3	03/10/23	10:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-TOP-031023
* JD61785-3A	03/10/23	10:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-TOP-031023
JD61785-3B	03/10/23	10:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-TOP-031023
* JD61785-4	03/10/23	10:10	BH	03/10/23	SO	Soil	LR-TT04-DRUM-BOTTOM-031023
* JD61785-4A	03/10/23	10:10	BH	03/10/23	SO	Soil	LR-TT04-DRUM-BOTTOM-031023
JD61785-4B	03/10/23	10:10	BH	03/10/23	SO	Soil	LR-TT04-DRUM-BOTTOM-031023
* JD61785-5	03/10/23	11:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-COMP-031023
* JD61785-5A	03/10/23	11:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-COMP-031023
JD61785-5B	03/10/23	11:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-COMP-031023

* The following report applies to these samples only (7 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 2

Client Sample ID:	LR-TB-031023	
Lab Sample ID:	JD61785-1	Date Sampled: 03/10/23
Matrix:	AQ - Trip Blank Soil	Date Received: 03/10/23
Method:	SW846 8260D	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F3781.D	1	03/14/23 03:30	NW	n/a	n/a	V1F123
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone ^c	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	LR-TB-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-1	Date Received:	03/10/23
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	.88	22	ug/l	J
	Total TIC, Volatile		0	ug/l	

- (a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT04-DRUM-TOP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-3	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	79.4
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	3D187444.D	1	03/15/23 16:12	CL	n/a	n/a	V3D7882
Run #2	3D187454.D	1	03/15/23 20:05	CL	n/a	n/a	V3D7882
Run #3	3D187483.D	1	03/20/23 15:10	CL	n/a	n/a	V3D7884

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.9 g	10.0 ml	100 ul
Run #2	3.9 g	10.0 ml	10.0 ul
Run #3	4.5 g	10.0 ml	5.0 ul

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	13.3	1.7	0.72	mg/kg	
71-43-2	Benzene	0.191	0.087	0.079	mg/kg	
74-97-5	Bromochloromethane	ND	0.87	0.098	mg/kg	
75-27-4	Bromodichloromethane	ND	0.35	0.075	mg/kg	
75-25-2	Bromoform	ND	0.87	0.24	mg/kg	
74-83-9	Bromomethane	ND	0.87	0.13	mg/kg	
78-93-3	2-Butanone (MEK)	495 ^c	17	4.2	mg/kg	
75-15-0	Carbon disulfide	ND	0.35	0.093	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.35	0.11	mg/kg	
108-90-7	Chlorobenzene	ND	0.35	0.080	mg/kg	
75-00-3	Chloroethane	ND	0.87	0.10	mg/kg	
67-66-3	Chloroform	ND	0.35	0.091	mg/kg	
74-87-3	Chloromethane	ND	0.87	0.34	mg/kg	
110-82-7	Cyclohexane	0.325	0.35	0.11	mg/kg	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.35	0.12	mg/kg	
124-48-1	Dibromochloromethane	ND	0.35	0.098	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.17	0.073	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.095	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.087	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.127	0.17	0.086	mg/kg	J
75-71-8	Dichlorodifluoromethane	ND	0.87	0.13	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.17	0.086	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.17	0.082	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.17	0.11	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.15	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.11	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.35	0.083	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.35	0.083	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.35	0.080	mg/kg	
100-41-4	Ethylbenzene	118 ^c	1.7	0.79	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-TOP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-3	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	79.4
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
76-13-1	Freon 113	ND	0.87	0.47	mg/kg	
591-78-6	2-Hexanone	ND	0.87	0.37	mg/kg	
98-82-8	Isopropylbenzene	3.33	0.35	0.25	mg/kg	
79-20-9	Methyl Acetate	0.793	0.87	0.24	mg/kg	J
108-87-2	Methylcyclohexane ^d	1.06	0.35	0.15	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.17	0.082	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	1.49	0.87	0.40	mg/kg	
75-09-2	Methylene chloride	ND	0.87	0.46	mg/kg	
100-42-5	Styrene	ND	0.35	0.070	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.35	0.10	mg/kg	
127-18-4	Tetrachloroethene	0.107	0.35	0.10	mg/kg	J
108-88-3	Toluene	393 ^e	3.1	1.6	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.87	0.44	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.87	0.44	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.35	0.084	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.35	0.097	mg/kg	
79-01-6	Trichloroethene	ND	0.17	0.13	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.87	0.12	mg/kg	
75-01-4	Vinyl chloride	ND	0.35	0.084	mg/kg	
	m,p-Xylene	729 ^e	3.1	2.7	mg/kg	
95-47-6	o-Xylene	246 ^c	1.7	0.80	mg/kg	
1330-20-7	Xylene (total)	975 ^e	3.1	1.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	98%	98%	105%	80-124%
17060-07-0	1,2-Dichloroethane-D4	104%	99%	99%	75-133%
2037-26-5	Toluene-D8	99%	97%	97%	79-125%
460-00-4	4-Bromofluorobenzene	103%	102%	91%	58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
103-65-1	Benzene, propyl-	8.26	2.2	mg/kg	JN
	C3 alkyl benzene	8.34	5.1	mg/kg	J
	C3 alkyl benzene	8.37	1.4	mg/kg	J
108-67-8	Benzene, 1,3,5-trimethyl-	8.43	2.2	mg/kg	JN
	C3 alkyl benzene	8.61	1	mg/kg	J
95-63-6	Benzene, 1,2,4-trimethyl-	8.79	2.1	mg/kg	JN
	Unknown	12.03	3.1	mg/kg	J
	Unknown	12.59	2.6	mg/kg	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT04-DRUM-TOP-031023		
Lab Sample ID:	JD61785-3	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	SW846 8260D	Percent Solids:	79.4
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		19.7	mg/kg	J

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits high.
- (c) Result is from Run# 2
- (d) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.
- (e) Result is from Run# 3

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT04-DRUM-TOP-031023	
Lab Sample ID:	JD61785-3	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8270E SW846 3546	Percent Solids: 79.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z162861.D	5	03/16/23 12:53	GA	03/14/23 09:00	OP45191	EZ8072
Run #2	Z162907.D	50	03/17/23 17:35	GA	03/14/23 09:00	OP45191	EZ8073

	Initial Weight	Final Volume
Run #1	31.9 g	1.0 ml
Run #2	31.9 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.39	0.098	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.99	0.12	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.99	0.17	mg/kg	
105-67-9	2,4-Dimethylphenol	0.424	0.99	0.35	mg/kg	J
51-28-5	2,4-Dinitrophenol	ND	0.99	0.74	mg/kg	
534-52-1	4,6-Dinitro-o-cresol ^a	ND	0.99	0.21	mg/kg	
95-48-7	2-Methylphenol	0.736	0.39	0.13	mg/kg	
	3&4-Methylphenol	0.325	0.39	0.16	mg/kg	J
88-75-5	2-Nitrophenol	ND	0.99	0.13	mg/kg	
100-02-7	4-Nitrophenol ^a	ND	2.0	0.53	mg/kg	
87-86-5	Pentachlorophenol	ND	0.79	0.19	mg/kg	
108-95-2	Phenol	ND	0.39	0.10	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.99	0.13	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.99	0.15	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.99	0.12	mg/kg	
83-32-9	Acenaphthene	4.11	0.20	0.068	mg/kg	
208-96-8	Acenaphthylene	0.252	0.20	0.10	mg/kg	
98-86-2	Acetophenone	0.725	0.99	0.042	mg/kg	J
120-12-7	Anthracene	19.7	0.20	0.12	mg/kg	
1912-24-9	Atrazine	ND	0.39	0.084	mg/kg	
56-55-3	Benzo(a)anthracene	43.3 ^b	2.0	0.56	mg/kg	
50-32-8	Benzo(a)pyrene	44.3 ^b	2.0	0.90	mg/kg	
205-99-2	Benzo(b)fluoranthene	53.5 ^b	2.0	0.87	mg/kg	
191-24-2	Benzo(g,h,i)perylene	24.7 ^b	2.0	0.99	mg/kg	
207-08-9	Benzo(k)fluoranthene	12.6	0.20	0.092	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.39	0.076	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.39	0.048	mg/kg	
92-52-4	1,1'-Biphenyl	0.245	0.39	0.027	mg/kg	J
100-52-7	Benzaldehyde	ND	0.99	0.049	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.39	0.047	mg/kg	
106-47-8	4-Chloroaniline	ND	0.99	0.071	mg/kg	
86-74-8	Carbazole	6.05	0.39	0.029	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-TOP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-3	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	79.4
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.39	0.078	mg/kg	
218-01-9	Chrysene	42.3 ^b	2.0	0.62	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.39	0.042	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.39	0.085	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.39	0.071	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.39	0.064	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.20	0.061	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.20	0.099	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.39	0.16	mg/kg	
123-91-1	1,4-Dioxane	ND	0.20	0.13	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	9.76	0.20	0.087	mg/kg	
132-64-9	Dibenzofuran	2.17	0.39	0.080	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.39	0.032	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.39	0.049	mg/kg	
84-66-2	Diethyl phthalate	ND	0.39	0.042	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.39	0.035	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	5.33	0.39	0.046	mg/kg	
206-44-0	Fluoranthene	99.0 ^b	2.0	0.88	mg/kg	
86-73-7	Fluorene	4.23	0.20	0.091	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.39	0.050	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.20	0.079	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2.0	0.079	mg/kg	
67-72-1	Hexachloroethane	ND	0.99	0.098	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	30.3 ^b	2.0	0.93	mg/kg	
78-59-1	Isophorone	ND	0.39	0.042	mg/kg	
91-57-6	2-Methylnaphthalene	1.12	0.20	0.045	mg/kg	
88-74-4	2-Nitroaniline	ND	0.99	0.047	mg/kg	
99-09-2	3-Nitroaniline	ND	0.99	0.049	mg/kg	
100-01-6	4-Nitroaniline	ND	0.99	0.051	mg/kg	
91-20-3	Naphthalene	1.21	0.20	0.056	mg/kg	
98-95-3	Nitrobenzene	ND	0.39	0.076	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.39	0.057	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.99	0.072	mg/kg	
85-01-8	Phenanthrene	62.1 ^b	2.0	0.66	mg/kg	
129-00-0	Pyrene	89.8 ^b	2.0	0.63	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.99	0.050	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%	0% ^c	10-99%

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B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-TOP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-3	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	79.4
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	44%	36%	10-96%
118-79-6	2,4,6-Tribromophenol	55%	0% ^c	10-123%
4165-60-0	Nitrobenzene-d5	49%	45%	10-109%
321-60-8	2-Fluorobiphenyl	44%	35%	11-109%
1718-51-0	Terphenyl-d14	53%	49%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
132-65-0	Dibenzothiophene	8.65	4.4	mg/kg	JN
	alkane	9.23	3.8	mg/kg	J
	Phenanthrene methyl	9.45	5.9	mg/kg	J
	Anthracene methyl	9.49	7	mg/kg	J
	unknown	9.60	15	mg/kg	J
	Anthracene methyl	9.63	3.4	mg/kg	J
35465-71-5	2-Phenylnaphthalene	9.87	4.3	mg/kg	JN
84-65-1	9,10-Anthracenedione	9.92	6.4	mg/kg	JN
	Phenanthrene dimethyl	10.23	3.6	mg/kg	J
	Phenanthrene dimethyl	10.30	4	mg/kg	J
	unknown	10.38	5.3	mg/kg	J
	unknown	10.68	4.5	mg/kg	J
1090-13-7	5,12-Naphthacenedione	13.85	4.8	mg/kg	JN
	unknown	14.08	4.1	mg/kg	J
	unknown PAH substance	14.43	9.4	mg/kg	J
	unknown	14.56	3.2	mg/kg	J
	unknown	14.61	4.1	mg/kg	J
	unknown PAH substance	14.68	28	mg/kg	J
	unknown	15.03	4.7	mg/kg	J
	unknown	15.08	4.2	mg/kg	J
	unknown	15.40	4	mg/kg	J
	unknown	16.10	6.9	mg/kg	J
	unknown	16.44	6.1	mg/kg	J
	unknown	16.50	6.4	mg/kg	J
	unknown	16.91	11	mg/kg	J
	Total TIC, Semi-Volatile		164.5	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-TOP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-3	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	79.4
Method:	SW846 8151A SW846 3546		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4145.D	5	03/17/23 00:35	RK	03/14/23 13:00	OP45180	G9G224
Run #2							

	Initial Weight	Final Volume
Run #1	16.5 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.095	0.052	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.019	0.011	mg/kg	
93-76-5	2,4,5-T	ND	0.019	0.0095	mg/kg	
75-99-0	Dalapon	ND	0.019	0.012	mg/kg	
1918-00-9	Dicamba ^a	ND	0.019	0.0099	mg/kg	
120-36-5	Dichloroprop	ND	0.095	0.051	mg/kg	
88-85-7	Dinoseb ^a	ND	0.095	0.060	mg/kg	
94-74-6	MCPA	ND	9.5	5.3	mg/kg	
93-65-2	MCPP ^a	ND	9.5	8.0	mg/kg	
87-86-5	Pentachlorophenol	0.0223	0.0095	0.0031	mg/kg	
94-82-6	2,4-DB	ND	0.095	0.053	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	5% ^b		10-138%
19719-28-9	2,4-DCAA	4% ^b		10-138%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-TOP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-3	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	79.4
Method:	SW846 8081B SW846 3546		
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G183421.D	1	03/16/23 02:47	CP	03/14/23 00:40	OP45196	G1G6415
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00082	0.00068	mg/kg	
319-84-6	alpha-BHC	ND	0.00082	0.00067	mg/kg	
319-85-7	beta-BHC	ND	0.00082	0.00074	mg/kg	
319-86-8	delta-BHC	ND	0.00082	0.00079	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00082	0.00061	mg/kg	
5103-71-9	alpha-Chlordane	0.0159	0.00082	0.00066	mg/kg	
5103-74-2	gamma-Chlordane ^a	0.0129	0.00082	0.00037	mg/kg	
60-57-1	Dieldrin ^a	0.0046	0.00082	0.00057	mg/kg	
72-54-8	4,4'-DDD	0.0204	0.00082	0.00076	mg/kg	
72-55-9	4,4'-DDE ^a	0.0141	0.00082	0.00072	mg/kg	
50-29-3	4,4'-DDT ^a	0.0127	0.00082	0.00073	mg/kg	
72-20-8	Endrin	ND	0.00082	0.00064	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00082	0.00064	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00082	0.00047	mg/kg	
959-98-8	Endosulfan-I	ND	0.00082	0.00047	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00082	0.00051	mg/kg	
76-44-8	Heptachlor	ND	0.00082	0.00071	mg/kg	
1024-57-3	Heptachlor epoxide	0.0044	0.00082	0.00058	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	0.00065	mg/kg	
53494-70-5	Endrin ketone	ND	0.00082	0.00060	mg/kg	
8001-35-2	Toxaphene	ND	0.021	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		13-162%
877-09-8	Tetrachloro-m-xylene	117%		13-162%
2051-24-3	Decachlorobiphenyl	62%		10-180%
2051-24-3	Decachlorobiphenyl	2966% ^b		10-180%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-TOP-031023	
Lab Sample ID:	JD61785-3	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8082A SW846 3546	Percent Solids: 79.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK20486.D	5	03/17/23 14:16	MLC	03/17/23 10:30	OP45197	GRK510
Run #2 ^a	RK20455.D	1	03/15/23 08:14	CP	03/14/23 00:40	OP45197	GRK508
Run #3 ^a	RK20475.D	5	03/15/23 18:27	MLC	03/14/23 00:40	OP45197	GRK509

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml
Run #3	15.3 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.21	0.096	mg/kg	
11104-28-2	Aroclor 1221	ND	0.21	0.13	mg/kg	
11141-16-5	Aroclor 1232	ND	0.21	0.13	mg/kg	
53469-21-9	Aroclor 1242	ND	0.21	0.084	mg/kg	
12672-29-6	Aroclor 1248	ND	0.21	0.18	mg/kg	
11097-69-1	Aroclor 1254	ND	0.21	0.11	mg/kg	
11096-82-5	Aroclor 1260	ND	0.21	0.088	mg/kg	
11100-14-4	Aroclor 1268	ND	0.21	0.087	mg/kg	
37324-23-5	Aroclor 1262	ND	0.21	0.13	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	144%	113%	153%	10-174%
877-09-8	Tetrachloro-m-xylene	120%	91%	137%	10-174%
2051-24-3	Decachlorobiphenyl	196% ^b	116%	144%	10-195%
2051-24-3	Decachlorobiphenyl	972% ^b	600% ^b	859% ^b	10-195%

(a) Confirmation run.

(b) Outside control limits due to matrix interference.

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-TOP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-3	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	79.4
Project:	Lyndon Road Landfill		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	5260	62	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Antimony	< 2.5	2.5	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Arsenic ^a	< 12	12	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Barium	157	25	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Beryllium	0.43	0.25	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Cadmium	< 0.62	0.62	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Calcium	18400	620	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Chromium	26.3	1.2	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Cobalt	< 6.2	6.2	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Copper ^a	36.5	15	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Iron	39300	310	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Lead ^a	282	12	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Magnesium	5740	620	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Manganese	365	1.9	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Mercury	0.13	0.040	mg/kg	1	03/15/23	03/16/23	LM	SW846 7471B ¹	SW846 7471B ⁵
Nickel	14.3	4.9	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Potassium	< 1200	1200	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Selenium ^a	< 12	12	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Silver ^a	3.6	3.1	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Sodium	< 1200	1200	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Thallium ^a	< 6.2	6.2	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Vanadium	14.9	6.2	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Zinc	220	6.2	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA53857

(2) Instrument QC Batch: MA53868

(3) Instrument QC Batch: MA53880

(4) Prep QC Batch: MP38411

(5) Prep QC Batch: MP38416

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-TOP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-3	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	79.4
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.14 NC		su	1	03/16/23 19:22	MM	SW846 9045D
Cyanide	1.1	0.28	mg/kg	1	03/14/23 12:51	MM	SW846 9012B/LACHAT
Cyanide Reactivity	< 12	12	mg/kg	1	03/14/23 13:23	MM	SW846 CHAP7/9012 B
Ignitability (Flashpoint)	> 200		Deg. F	1	03/16/23 19:44	MM	SW846 1010B/ASTM D93
Solids, Percent	79.4		%	1	03/14/23 15:51	RP	SM2540 G 18TH ED MOD
Sulfide Reactivity	< 120	120	mg/kg	1	03/16/23 10:55	MK	SW846 CHAP7/9034
Total Organic Carbon	95300	130	mg/kg	1	03/15/23 11:26	MB	LLOYD KAHN 1988 MOD
pH ^a	7.14		su	1	03/16/23 18:50	MM	SW846 9045D

(a) Temp of pH Reading: 20.5 Deg. C

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-TOP-031023		
Lab Sample ID:	JD61785-3A	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	SW846 8260D SW846 1311	Percent Solids:	79.4
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F4070.D	5	03/22/23 13:44	NW	03/13/23 11:00	GP45583	V2F134
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	1.55	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform ^a	0.0037	D022	6.0	0.0050	0.0025	mg/l	JB
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	102%		72-122%

(a) Indicates analyte found in associated leachate blank.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-TOP-031023		
Lab Sample ID:	JD61785-3A	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	SW846 8270E SW846 3510C	Percent Solids:	79.4
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E121500.D	1	03/17/23 15:46	JY	03/16/23 09:02	OP45222	E3E5607
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		10-73%
4165-62-2	Phenol-d5	25%		10-64%
118-79-6	2,4,6-Tribromophenol	62%		31-130%
4165-60-0	Nitrobenzene-d5	70%		28-126%
321-60-8	2-Fluorobiphenyl	62%		26-114%
1718-51-0	Terphenyl-d14	74%		16-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-TOP-031023	
Lab Sample ID:	JD61785-3A	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8151A SW846 3510C	Percent Solids: 79.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OA165541.D	1	03/18/23 04:32	RK	03/16/23 08:35	OP45223	GOA5852
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Herbicide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	0.0031	D016	10	0.0033	0.00098	mg/l	J
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0010	0.00020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	44%		13-169%
19719-28-9	2,4-DCAA	61%		13-169%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-TOP-031023	
Lab Sample ID:	JD61785-3A	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8081B SW846 3510C	Percent Solids: 79.4
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89436.D	1	03/17/23 04:30	RK	03/16/23 10:20	OP45224	G6G3238
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Pesticide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.000067	0.000040	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0033	0.0014	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.000067	0.000040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.000067	0.000030	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.000067	0.000040	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00013	0.000045	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0017	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		30-137%
877-09-8	Tetrachloro-m-xylene	83%		30-137%
2051-24-3	Decachlorobiphenyl	62%		10-137%
2051-24-3	Decachlorobiphenyl	86%		10-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-TOP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-3A	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	79.4
Project:	Lyndon Road Landfill		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Barium	0.27	D005	100	0.20	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Cadmium	0.0053	D006	1.0	0.0040	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Lead	0.10	D008	5.0	0.10	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	03/17/23	03/19/23	LM	SW846 7470A ² SW846 7470A ⁴
Selenium	< 0.10	D010	1.0	0.10	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³

(1) Instrument QC Batch: MA53868

(2) Instrument QC Batch: MA53876

(3) Prep QC Batch: MP38422

(4) Prep QC Batch: MP38491

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 7/1/11)

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	3D187445.D	1	03/15/23 16:35	CL	n/a	n/a	V3D7882
Run #2	3D187484.D	1	03/20/23 15:34	CL	n/a	n/a	V3D7884
Run #3	3D187455.D	1	03/15/23 20:29	CL	n/a	n/a	V3D7882

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.8 g	10.0 ml	100 ul
Run #2	3.8 g	10.0 ml	0.50 ul
Run #3	3.8 g	10.0 ml	2.0 ul

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	52.2	1.7	0.69	mg/kg	
71-43-2	Benzene	0.921	0.083	0.076	mg/kg	
74-97-5	Bromochloromethane	ND	0.83	0.093	mg/kg	
75-27-4	Bromodichloromethane	ND	0.33	0.072	mg/kg	
75-25-2	Bromoform	ND	0.83	0.23	mg/kg	
74-83-9	Bromomethane	ND	0.83	0.13	mg/kg	
78-93-3	2-Butanone (MEK)	3260 ^c	83	20	mg/kg	
75-15-0	Carbon disulfide	ND	0.33	0.089	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.33	0.10	mg/kg	
108-90-7	Chlorobenzene	ND	0.33	0.077	mg/kg	
75-00-3	Chloroethane	ND	0.83	0.099	mg/kg	
67-66-3	Chloroform	ND	0.33	0.087	mg/kg	
74-87-3	Chloromethane	ND	0.83	0.33	mg/kg	
110-82-7	Cyclohexane	ND	0.33	0.11	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.33	0.12	mg/kg	
124-48-1	Dibromochloromethane	ND	0.33	0.093	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.17	0.070	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.17	0.091	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.083	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.17	0.082	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.83	0.12	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.17	0.083	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.17	0.078	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.17	0.11	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.14	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.10	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.33	0.079	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.33	0.079	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.33	0.076	mg/kg	
100-41-4	Ethylbenzene	935 ^c	8.3	3.8	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
76-13-1	Freon 113	ND	0.83	0.45	mg/kg	
591-78-6	2-Hexanone	ND	0.83	0.35	mg/kg	
98-82-8	Isopropylbenzene	18.7	0.33	0.24	mg/kg	
79-20-9	Methyl Acetate	0.659	0.83	0.23	mg/kg	J
108-87-2	Methylcyclohexane ^d	0.241	0.33	0.15	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.17	0.078	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	13.4	0.83	0.38	mg/kg	
75-09-2	Methylene chloride	ND	0.83	0.44	mg/kg	
100-42-5	Styrene	ND	0.33	0.067	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.33	0.10	mg/kg	
127-18-4	Tetrachloroethene	0.117	0.33	0.097	mg/kg	J
108-88-3	Toluene	3530 ^e	33	18	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.83	0.42	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.83	0.42	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.33	0.081	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.33	0.092	mg/kg	
79-01-6	Trichloroethene	0.362	0.17	0.13	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.83	0.11	mg/kg	
75-01-4	Vinyl chloride	ND	0.33	0.080	mg/kg	
	m,p-Xylene	6200 ^e	33	30	mg/kg	
95-47-6	o-Xylene	1940 ^e	33	15	mg/kg	
1330-20-7	Xylene (total)	8140 ^e	33	15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	103%	105%	100%	80-124%
17060-07-0	1,2-Dichloroethane-D4	106%	100%	101%	75-133%
2037-26-5	Toluene-D8	95%	97%	98%	79-125%
460-00-4	4-Bromofluorobenzene	107%	101%	99%	58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alcohols	3.78	3.2	mg/kg	J
	ketones	4.48	1.9	mg/kg	J
	alcohols	4.64	1.9	mg/kg	J
	esters	6.37	4.4	mg/kg	J
2040-96-2	Cyclopentane, propyl-	6.45	1.9	mg/kg	JN
	cycloalkane	6.51	2.4	mg/kg	J
	alkane	6.75	4.5	mg/kg	J
	alkane	6.86	2.9	mg/kg	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
103-65-1	Benzene, propyl-	8.26	14	mg/kg	JN
	C3 alkyl benzene	8.34	27	mg/kg	J
	C3 alkyl benzene	8.37	8.9	mg/kg	J
108-67-8	Benzene, 1,3,5-trimethyl-	8.43	8.8	mg/kg	JN
	C3 alkyl benzene	8.61	5	mg/kg	J
	C3 alkyl benzene	8.79	8.9	mg/kg	J
	alkane	9.62	1.2	mg/kg	J
	Total TIC, Volatile		96.9	mg/kg	J

- (a) Dilution required due to high concentrations of target and non-target compounds.
 (b) Associated CCV outside of control limits high.
 (c) Result is from Run# 3
 (d) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.
 (e) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	
Lab Sample ID:	JD61785-4	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8270E SW846 3546	Percent Solids: 83.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z162862.D	5	03/16/23 13:17	GA	03/14/23 09:00	OP45191	EZ8072
Run #2	Z162908.D	20	03/17/23 17:59	GA	03/14/23 09:00	OP45191	EZ8073

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2	30.4 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.39	0.097	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.98	0.12	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.98	0.17	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.98	0.35	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.98	0.74	mg/kg	
534-52-1	4,6-Dinitro-o-cresol ^a	ND	0.98	0.21	mg/kg	
95-48-7	2-Methylphenol	ND	0.39	0.13	mg/kg	
	3&4-Methylphenol	0.234	0.39	0.16	mg/kg	J
88-75-5	2-Nitrophenol	ND	0.98	0.13	mg/kg	
100-02-7	4-Nitrophenol ^a	ND	2.0	0.52	mg/kg	
87-86-5	Pentachlorophenol	ND	0.79	0.18	mg/kg	
108-95-2	Phenol	0.139	0.39	0.10	mg/kg	J
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.98	0.13	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.98	0.15	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.98	0.12	mg/kg	
83-32-9	Acenaphthene	2.88	0.20	0.068	mg/kg	
208-96-8	Acenaphthylene	ND	0.20	0.10	mg/kg	
98-86-2	Acetophenone	0.405	0.98	0.042	mg/kg	J
120-12-7	Anthracene	7.53	0.20	0.12	mg/kg	
1912-24-9	Atrazine	ND	0.39	0.084	mg/kg	
56-55-3	Benzo(a)anthracene	13.2	0.20	0.056	mg/kg	
50-32-8	Benzo(a)pyrene	13.1	0.20	0.089	mg/kg	
205-99-2	Benzo(b)fluoranthene	14.7	0.20	0.087	mg/kg	
191-24-2	Benzo(g,h,i)perylene	7.83	0.20	0.098	mg/kg	
207-08-9	Benzo(k)fluoranthene	5.33	0.20	0.092	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.39	0.076	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.39	0.048	mg/kg	
92-52-4	1,1'-Biphenyl	0.199	0.39	0.027	mg/kg	J
100-52-7	Benzaldehyde	ND	0.98	0.049	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.39	0.047	mg/kg	
106-47-8	4-Chloroaniline	ND	0.98	0.071	mg/kg	
86-74-8	Carbazole	3.51	0.39	0.028	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.39	0.078	mg/kg	
218-01-9	Chrysene	12.3	0.20	0.062	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.39	0.042	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.39	0.085	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.39	0.071	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.39	0.064	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.20	0.061	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.20	0.099	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.39	0.16	mg/kg	
123-91-1	1,4-Dioxane	ND	0.20	0.13	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	2.04	0.20	0.087	mg/kg	
132-64-9	Dibenzofuran	1.67	0.39	0.080	mg/kg	
84-74-2	Di-n-butyl phthalate	0.153	0.39	0.032	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.39	0.049	mg/kg	
84-66-2	Diethyl phthalate	ND	0.39	0.042	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.39	0.035	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	18.8	0.39	0.046	mg/kg	
206-44-0	Fluoranthene	26.3 ^b	0.79	0.35	mg/kg	
86-73-7	Fluorene	2.84	0.20	0.090	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.39	0.050	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.20	0.079	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2.0	0.078	mg/kg	
67-72-1	Hexachloroethane	ND	0.98	0.097	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	9.12	0.20	0.092	mg/kg	
78-59-1	Isophorone	ND	0.39	0.042	mg/kg	
91-57-6	2-Methylnaphthalene	0.500	0.20	0.044	mg/kg	
88-74-4	2-Nitroaniline	ND	0.98	0.046	mg/kg	
99-09-2	3-Nitroaniline	ND	0.98	0.049	mg/kg	
100-01-6	4-Nitroaniline	ND	0.98	0.051	mg/kg	
91-20-3	Naphthalene	0.903	0.20	0.055	mg/kg	
98-95-3	Nitrobenzene	ND	0.39	0.076	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.39	0.057	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.98	0.072	mg/kg	
85-01-8	Phenanthrene	23.1 ^b	0.79	0.26	mg/kg	
129-00-0	Pyrene	22.7 ^b	0.79	0.25	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.98	0.050	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	16%	29%	10-99%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	39%	32%	10-96%
118-79-6	2,4,6-Tribromophenol	46%	32%	10-123%
4165-60-0	Nitrobenzene-d5	41%	36%	10-109%
321-60-8	2-Fluorobiphenyl	40%	37%	11-109%
1718-51-0	Terphenyl-d14	43%	40%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	2.34	6.4	mg/kg	J
	unknown	3.25	2.9	mg/kg	J
	C3 alkyl benzene	4.27	4.9	mg/kg	J
	C3 alkyl benzene	4.50	5	mg/kg	J
	alkane	8.09	5	mg/kg	J
	alkane	8.66	5.7	mg/kg	J
	alkane	9.23	9.7	mg/kg	J
	unknown	9.36	3	mg/kg	J
	Phenanthrene methyl	9.46	4.9	mg/kg	J
	Phenanthrene methyl	9.49	3	mg/kg	J
	alkane	9.81	5.1	mg/kg	J
	unknown	9.96	4.4	mg/kg	J
	alkane	10.04	4.1	mg/kg	J
	alkane	10.24	3.6	mg/kg	J
	Cyclohexane alkyl	10.31	2.9	mg/kg	J
	alkane	10.40	3.3	mg/kg	J
	alkane	10.62	3.3	mg/kg	J
	unknown	12.03	8.4	mg/kg	J
	unknown	13.76	12	mg/kg	J
	Dibenzopyrene	14.21	7.3	mg/kg	J
	unknown PAH substance	14.41	6.1	mg/kg	J
	unknown PAH substance	14.65	7.4	mg/kg	J
	-Dibenzopyrene	15.46	5	mg/kg	J
	unknown	15.52	9.7	mg/kg	J
	unknown	15.94	3.1	mg/kg	J
	Total TIC, Semi-Volatile		136.2	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023			Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4			Date Received:	03/10/23
Matrix:	SO - Soil			Percent Solids:	83.7
Method:	SW846 8151A SW846 3546				
Project:	Lyndon Road Landfill				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4146.D	5	03/17/23 00:56	RK	03/14/23 13:00	OP45180	G9G224
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.093	0.051	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.019	0.011	mg/kg	
93-76-5	2,4,5-T	ND	0.019	0.0093	mg/kg	
75-99-0	Dalapon	ND	0.019	0.011	mg/kg	
1918-00-9	Dicamba ^a	ND	0.019	0.0097	mg/kg	
120-36-5	Dichloroprop	ND	0.093	0.050	mg/kg	
88-85-7	Dinoseb ^a	ND	0.093	0.059	mg/kg	
94-74-6	MCPA	ND	9.3	5.1	mg/kg	
93-65-2	MCP ^a	ND	9.3	7.8	mg/kg	
87-86-5	Pentachlorophenol	0.0117	0.0093	0.0030	mg/kg	
94-82-6	2,4-DB	ND	0.093	0.052	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	30%		10-138%
19719-28-9	2,4-DCAA	26%		10-138%

(a) Associated CCV outside of control limits high, sample was ND.

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	
Lab Sample ID:	JD61785-4	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8081B SW846 3546	Percent Solids: 83.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G183422.D	1	03/16/23 03:05	CP	03/14/23 00:40	OP45196	G1G6415
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00078	0.00064	mg/kg	
319-84-6	alpha-BHC	ND	0.00078	0.00063	mg/kg	
319-85-7	beta-BHC	ND	0.00078	0.00070	mg/kg	
319-86-8	delta-BHC	ND	0.00078	0.00074	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00078	0.00057	mg/kg	
5103-71-9	alpha-Chlordane	0.0026	0.00078	0.00063	mg/kg	
5103-74-2	gamma-Chlordane ^a	0.0167	0.00078	0.00035	mg/kg	
60-57-1	Dieldrin ^a	0.0025	0.00078	0.00053	mg/kg	
72-54-8	4,4' -DDD	0.0181	0.00078	0.00071	mg/kg	
72-55-9	4,4' -DDE	ND	0.00078	0.00068	mg/kg	
50-29-3	4,4' -DDT	0.0029	0.00078	0.00069	mg/kg	
72-20-8	Endrin	ND	0.00078	0.00060	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00078	0.00061	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00078	0.00044	mg/kg	
959-98-8	Endosulfan-I	ND	0.00078	0.00045	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00078	0.00048	mg/kg	
76-44-8	Heptachlor	ND	0.00078	0.00067	mg/kg	
1024-57-3	Heptachlor epoxide	0.0038	0.00078	0.00054	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	0.00062	mg/kg	
53494-70-5	Endrin ketone	ND	0.00078	0.00056	mg/kg	
8001-35-2	Toxaphene	ND	0.019	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		13-162%
877-09-8	Tetrachloro-m-xylene	62%		13-162%
2051-24-3	Decachlorobiphenyl	69%		10-180%
2051-24-3	Decachlorobiphenyl	3120% ^b		10-180%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	
Lab Sample ID:	JD61785-4	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8082A SW846 3546	Percent Solids: 83.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK20469.D	1	03/15/23 16:50	MLC	03/14/23 00:40	OP45197	GRK509
Run #2 ^a	RK20488.D	1	03/17/23 14:49	MLC	03/17/23 10:30	OP45197	GRK510

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2	15.4 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.039	0.018	mg/kg	
11104-28-2	Aroclor 1221	ND	0.039	0.024	mg/kg	
11141-16-5	Aroclor 1232	ND	0.039	0.025	mg/kg	
53469-21-9	Aroclor 1242	ND	0.039	0.016	mg/kg	
12672-29-6	Aroclor 1248	ND	0.039	0.035	mg/kg	
11097-69-1	Aroclor 1254	ND	0.039	0.021	mg/kg	
11096-82-5	Aroclor 1260 ^b	ND	0.039	0.017	mg/kg	
11100-14-4	Aroclor 1268	ND	0.039	0.016	mg/kg	
37324-23-5	Aroclor 1262	ND	0.039	0.025	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%	60%	10-174%
877-09-8	Tetrachloro-m-xylene	54%	50%	10-174%
2051-24-3	Decachlorobiphenyl	70%	76%	10-195%
2051-24-3	Decachlorobiphenyl	689% ^c	685% ^c	10-195%

(a) Confirmation run.

(b) Associated CCV outside of control limits low.

(c) Outside control limits due to matrix interference.

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RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	83.7
Project:	Lyndon Road Landfill		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	4440	59	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Antimony	< 2.4	2.4	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Arsenic ^a	< 12	12	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Barium	56.0	24	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Beryllium	< 0.24	0.24	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Cadmium	< 0.59	0.59	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Calcium	21300	590	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Chromium ^a	26.0	5.9	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Cobalt	< 5.9	5.9	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Copper ^a	46.0	15	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Iron	49900	300	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Lead	52.4	2.4	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Magnesium	6930	590	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Manganese	468	1.8	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Mercury	0.12	0.031	mg/kg	1	03/15/23	03/16/23	LM	SW846 7471B ¹	SW846 7471B ⁵
Nickel	20.5	4.7	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Potassium	< 1200	1200	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Selenium ^a	26.2	12	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Silver ^a	< 3.0	3.0	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Sodium	< 1200	1200	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Thallium ^a	< 5.9	5.9	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Vanadium	13.1	5.9	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Zinc	121	5.9	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA53857

(2) Instrument QC Batch: MA53868

(3) Instrument QC Batch: MA53880

(4) Prep QC Batch: MP38411

(5) Prep QC Batch: MP38416

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	83.7
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.38 NC		su	1	03/16/23 19:24	MM	SW846 9045D
Cyanide	0.55	0.31	mg/kg	1	03/14/23 12:54	MM	SW846 9012B/LACHAT
Cyanide Reactivity	< 11	11	mg/kg	1	03/14/23 13:24	MM	SW846 CHAP7/9012 B
Ignitability (Flashpoint)	> 200		Deg. F	1	03/16/23 19:44	MM	SW846 1010B/ASTM D93
Solids, Percent	83.7		%	1	03/14/23 15:51	RP	SM2540 G 18TH ED MOD
Sulfide Reactivity	< 110	110	mg/kg	1	03/16/23 10:55	MK	SW846 CHAP7/9034
Total Organic Carbon	37400	120	mg/kg	1	03/15/23 12:04	MB	LLOYD KAHN 1988 MOD
pH ^a	7.38		su	1	03/16/23 18:52	MM	SW846 9045D

(a) Temp of pH Reading: 20.6 Deg. C

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023		
Lab Sample ID:	JD61785-4A	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	SW846 8260D SW846 1311	Percent Solids:	83.7
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F4038.D	5	03/21/23 17:33	NW	03/13/23 11:00	GP45583	V1F133
Run #2	2F4076.D	250	03/22/23 16:20	NW	03/13/23 11:00	GP45583	V2F134

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.0109	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	69.0 ^a	D035	200	5.0	1.7	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.0050	0.0025	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	0.0034	D040	0.50	0.0050	0.0026	mg/l	J
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%	104%	76-120%
17060-07-0	1,2-Dichloroethane-D4	103%	106%	64-135%
2037-26-5	Toluene-D8	105%	103%	76-117%
460-00-4	4-Bromofluorobenzene	107%	99%	72-122%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023			Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4A			Date Received:	03/10/23
Matrix:	SO - Soil			Percent Solids:	83.7
Method:	SW846 8270E SW846 3510C				
Project:	Lyndon Road Landfill				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E121501.D	1	03/17/23 16:12	JY	03/16/23 09:02	OP45222	E3E5607
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	0.0175	D023	200	0.020	0.0089	mg/l	J
	3&4-Methylphenol	0.0248	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		10-73%
4165-62-2	Phenol-d5	32%		10-64%
118-79-6	2,4,6-Tribromophenol	81%		31-130%
4165-60-0	Nitrobenzene-d5	87%		28-126%
321-60-8	2-Fluorobiphenyl	79%		26-114%
1718-51-0	Terphenyl-d14	77%		16-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023					Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4A					Date Received:	03/10/23
Matrix:	SO - Soil					Percent Solids:	83.7
Method:	SW846 8151A SW846 3510C						
Project:	Lyndon Road Landfill						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OA165542.D	1	03/18/23 04:56	RK	03/16/23 08:35	OP45223	GOA5852
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Herbicide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	0.0016	D016	10	0.0033	0.00098	mg/l	J
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0010	0.00020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	39%		13-169%
19719-28-9	2,4-DCAA	61%		13-169%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023			Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4A			Date Received:	03/10/23
Matrix:	SO - Soil			Percent Solids:	83.7
Method:	SW846 8081B SW846 3510C				
Project:	Lyndon Road Landfill				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89437.D	1	03/17/23 04:48	RK	03/16/23 10:20	OP45224	G6G3238
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Pesticide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.000067	0.000040	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0033	0.0014	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.000067	0.000040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.000067	0.000030	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.000067	0.000040	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00013	0.000045	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0017	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	57%		30-137%
877-09-8	Tetrachloro-m-xylene	77%		30-137%
2051-24-3	Decachlorobiphenyl	47%		10-137%
2051-24-3	Decachlorobiphenyl	80%		10-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-4A	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	83.7
Project:	Lyndon Road Landfill		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Barium	0.36	D005	100	0.20	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Cadmium	0.0073	D006	1.0	0.0040	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Lead	< 0.10	D008	5.0	0.10	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	03/17/23	03/19/23	LM	SW846 7470A ² SW846 7470A ⁴
Selenium	< 0.10	D010	1.0	0.10	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³

(1) Instrument QC Batch: MA53868

(2) Instrument QC Batch: MA53876

(3) Prep QC Batch: MP38422

(4) Prep QC Batch: MP38491

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 7/1/11)

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8260D	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	3D187446.D	1	03/15/23 16:58	CL	n/a	n/a	V3D7882
Run #2	3D187456.D	1	03/15/23 20:52	CL	n/a	n/a	V3D7882

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.4 g	10.0 ml	100 ul
Run #2	3.4 g	10.0 ml	2.0 ul

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	9.03	1.5	0.62	mg/kg	
71-43-2	Benzene	0.191	0.075	0.068	mg/kg	
74-97-5	Bromochloromethane	ND	0.75	0.084	mg/kg	
75-27-4	Bromodichloromethane	ND	0.30	0.064	mg/kg	
75-25-2	Bromoform	ND	0.75	0.20	mg/kg	
74-83-9	Bromomethane	ND	0.75	0.11	mg/kg	
78-93-3	2-Butanone (MEK)	940 ^c	95	23	mg/kg	
75-15-0	Carbon disulfide	ND	0.30	0.080	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.30	0.093	mg/kg	
108-90-7	Chlorobenzene	ND	0.30	0.069	mg/kg	
75-00-3	Chloroethane	ND	0.75	0.089	mg/kg	
67-66-3	Chloroform	ND	0.30	0.078	mg/kg	
74-87-3	Chloromethane	ND	0.75	0.29	mg/kg	
110-82-7	Cyclohexane	ND	0.30	0.099	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.30	0.10	mg/kg	
124-48-1	Dibromochloromethane	ND	0.30	0.084	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.15	0.063	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.082	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.074	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.15	0.074	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.75	0.11	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.15	0.074	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.15	0.071	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.15	0.098	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.13	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.092	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.30	0.071	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.30	0.071	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.30	0.069	mg/kg	
100-41-4	Ethylbenzene	387 ^c	9.5	4.3	mg/kg	
76-13-1	Freon 113	ND	0.75	0.40	mg/kg	
591-78-6	2-Hexanone	ND	0.75	0.32	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-COMP-031023		
Lab Sample ID:	JD61785-5	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	SW846 8260D	Percent Solids:	81.8
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	7.36	0.30	0.21	mg/kg	
79-20-9	Methyl Acetate	0.721	0.75	0.21	mg/kg	J
108-87-2	Methylcyclohexane ^d	0.231	0.30	0.13	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.15	0.070	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	3.64	0.75	0.34	mg/kg	
75-09-2	Methylene chloride	ND	0.75	0.39	mg/kg	
100-42-5	Styrene	ND	0.30	0.060	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.30	0.090	mg/kg	
127-18-4	Tetrachloroethene	ND	0.30	0.087	mg/kg	
108-88-3	Toluene	1130 ^c	9.5	5.0	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.75	0.38	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	0.38	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.30	0.072	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.30	0.083	mg/kg	
79-01-6	Trichloroethene	ND	0.15	0.11	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.75	0.10	mg/kg	
75-01-4	Vinyl chloride	ND	0.30	0.072	mg/kg	
	m,p-Xylene	2250 ^c	9.5	8.6	mg/kg	
95-47-6	o-Xylene	708 ^c	9.5	4.4	mg/kg	
1330-20-7	Xylene (total)	2960 ^c	9.5	4.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	103%	80-124%
17060-07-0	1,2-Dichloroethane-D4	103%	100%	75-133%
2037-26-5	Toluene-D8	99%	100%	79-125%
460-00-4	4-Bromofluorobenzene	97%	98%	58-148%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	unknown	1.89	.75	mg/kg	J
	esters	6.37	1.5	mg/kg	J
	alkane	6.74	1.5	mg/kg	J
	alkane	6.85	1	mg/kg	J
103-65-1	Benzene, propyl-	8.26	4.5	mg/kg	JN
	C3 alkyl benzene	8.34	9.4	mg/kg	J
	C3 alkyl benzene	8.37	2.8	mg/kg	J
108-67-8	Benzene, 1,3,5-trimethyl-	8.43	3.1	mg/kg	JN
	C3 alkyl benzene	8.61	1.7	mg/kg	J
95-63-6	Benzene, 1,2,4-trimethyl-	8.79	3.1	mg/kg	JN

ND = Not detected MDL = Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8260D	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

VOA TCL List

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		29.35	mg/kg	J

- (a) Dilution required due to high concentrations of target and non-target compounds.
(b) Associated CCV outside of control limits high.
(c) Result is from Run# 2
(d) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8270E SW846 3546	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Z162863.D	2	03/16/23 13:41	GA	03/14/23 09:00	OP45191	EZ8072
Run #2	Z162909.D	10	03/17/23 18:23	GA	03/14/23 09:00	OP45191	EZ8073

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2	31.3 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.16	0.039	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.39	0.048	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.39	0.067	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.39	0.14	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.39	0.29	mg/kg	
534-52-1	4,6-Dinitro-o-cresol ^b	ND	0.39	0.084	mg/kg	
95-48-7	2-Methylphenol	ND	0.16	0.050	mg/kg	
	3&4-Methylphenol	ND	0.16	0.064	mg/kg	
88-75-5	2-Nitrophenol	ND	0.39	0.052	mg/kg	
100-02-7	4-Nitrophenol ^b	ND	0.78	0.21	mg/kg	
87-86-5	Pentachlorophenol	ND	0.31	0.073	mg/kg	
108-95-2	Phenol	ND	0.16	0.041	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.39	0.052	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.39	0.059	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.39	0.047	mg/kg	
83-32-9	Acenaphthene	0.528	0.078	0.027	mg/kg	
208-96-8	Acenaphthylene	0.0710	0.078	0.040	mg/kg	J
98-86-2	Acetophenone	0.245	0.39	0.017	mg/kg	J
120-12-7	Anthracene	1.33	0.078	0.048	mg/kg	
1912-24-9	Atrazine	ND	0.16	0.033	mg/kg	
56-55-3	Benzo(a)anthracene	4.23	0.078	0.022	mg/kg	
50-32-8	Benzo(a)pyrene	4.66	0.078	0.036	mg/kg	
205-99-2	Benzo(b)fluoranthene	5.18	0.078	0.035	mg/kg	
191-24-2	Benzo(g,h,i)perylene	3.14	0.078	0.039	mg/kg	
207-08-9	Benzo(k)fluoranthene	2.13	0.078	0.036	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.16	0.030	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.16	0.019	mg/kg	
92-52-4	1,1'-Biphenyl	0.0528	0.16	0.011	mg/kg	J
100-52-7	Benzaldehyde	ND	0.39	0.019	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.16	0.019	mg/kg	
106-47-8	4-Chloroaniline	ND	0.39	0.028	mg/kg	
86-74-8	Carbazole	0.610	0.16	0.011	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-COMP-031023		
Lab Sample ID:	JD61785-5	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	SW846 8270E SW846 3546	Percent Solids:	81.8
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.16	0.031	mg/kg	
218-01-9	Chrysene	4.03	0.078	0.025	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.16	0.017	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.16	0.034	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.16	0.028	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.16	0.025	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.078	0.024	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.078	0.039	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.16	0.065	mg/kg	
123-91-1	1,4-Dioxane	ND	0.078	0.052	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	1.05	0.078	0.035	mg/kg	
132-64-9	Dibenzofuran	0.268	0.16	0.032	mg/kg	
84-74-2	Di-n-butyl phthalate	0.0956	0.16	0.013	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.16	0.019	mg/kg	
84-66-2	Diethyl phthalate	ND	0.16	0.017	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.16	0.014	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	10.0 ^c	0.78	0.091	mg/kg	
206-44-0	Fluoranthene	7.12	0.078	0.035	mg/kg	
86-73-7	Fluorene	0.418	0.078	0.036	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.16	0.020	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.078	0.031	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.78	0.031	mg/kg	
67-72-1	Hexachloroethane	ND	0.39	0.039	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3.52	0.078	0.037	mg/kg	
78-59-1	Isophorone	ND	0.16	0.017	mg/kg	
91-57-6	2-Methylnaphthalene	0.161	0.078	0.018	mg/kg	
88-74-4	2-Nitroaniline	ND	0.39	0.018	mg/kg	
99-09-2	3-Nitroaniline	ND	0.39	0.020	mg/kg	
100-01-6	4-Nitroaniline	ND	0.39	0.020	mg/kg	
91-20-3	Naphthalene	0.221	0.078	0.022	mg/kg	
98-95-3	Nitrobenzene	ND	0.16	0.030	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.16	0.023	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.39	0.029	mg/kg	
85-01-8	Phenanthrene	4.57	0.078	0.026	mg/kg	
129-00-0	Pyrene	7.36	0.078	0.025	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.39	0.020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%	38%	10-99%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-COMP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-5	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	81.8
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	49%	41%	10-96%
118-79-6	2,4,6-Tribromophenol	65%	50%	10-123%
4165-60-0	Nitrobenzene-d5	57%	50%	10-109%
321-60-8	2-Fluorobiphenyl	54%	44%	11-109%
1718-51-0	Terphenyl-d14	56%	50%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
544-63-8	C3 alkyl benzene	4.27	1.7	mg/kg	J
	C3 alkyl benzene	4.50	1.8	mg/kg	J
	alkane	7.56	1.5	mg/kg	J
	alkane	8.09	2.9	mg/kg	J
	Tetradecanoic acid	8.43	2.1	mg/kg	JN
	alkane	8.66	3	mg/kg	J
	alkane	9.24	5.9	mg/kg	J
	unknown	9.37	1.5	mg/kg	J
	unknown	9.48	4.4	mg/kg	J
	unknown acid	9.67	8.7	mg/kg	J
	alkane	9.83	3.1	mg/kg	J
	Cyclohexane alkyl	9.98	3.2	mg/kg	J
	alkane	10.06	4.2	mg/kg	J
	alkane	10.25	4.4	mg/kg	J
	Cyclohexane alkyl	10.32	1.5	mg/kg	J
103-23-1	alkane	10.42	2.1	mg/kg	J
	alkane	10.64	2.1	mg/kg	J
	unknown acid	10.93	35	mg/kg	J
	unknown	11.17	1.5	mg/kg	J
	Hexanedioic acid, bis(2-ethylhexyl) este	12.05	4.6	mg/kg	JN
	unknown	12.30	2.3	mg/kg	J
	alkane	13.32	1.6	mg/kg	J
	unknown	13.79	16	mg/kg	J
	unknown PAH substance	14.44	2.2	mg/kg	J
	unknown PAH substance	14.68	2.9	mg/kg	J
	Total TIC, Semi-Volatile		120.2	mg/kg	J

(a) Elevated detection limit due to matrix interference.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8151A SW846 3546	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4147.D	5	03/17/23 01:18	RK	03/14/23 13:00	OP45180	G9G224
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.10	0.055	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.020	0.011	mg/kg	
93-76-5	2,4,5-T	ND	0.020	0.010	mg/kg	
75-99-0	Dalapon	ND	0.020	0.012	mg/kg	
1918-00-9	Dicamba ^a	ND	0.020	0.010	mg/kg	
120-36-5	Dichloroprop	ND	0.10	0.054	mg/kg	
88-85-7	Dinoseb ^a	ND	0.10	0.063	mg/kg	
94-74-6	MCPA	ND	10	5.5	mg/kg	
93-65-2	MCPP ^a	ND	10	8.4	mg/kg	
87-86-5	Pentachlorophenol	0.0098	0.010	0.0033	mg/kg	J
94-82-6	2,4-DB	ND	0.10	0.056	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	22%		10-138%
19719-28-9	2,4-DCAA	18%		10-138%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8081B SW846 3546	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G183423.D	1	03/16/23 03:22	CP	03/14/23 00:40	OP45196	G1G6415
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00080	0.00066	mg/kg	
319-84-6	alpha-BHC	ND	0.00080	0.00065	mg/kg	
319-85-7	beta-BHC	ND	0.00080	0.00073	mg/kg	
319-86-8	delta-BHC	ND	0.00080	0.00077	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00080	0.00059	mg/kg	
5103-71-9	alpha-Chlordane	0.0036	0.00080	0.00065	mg/kg	
5103-74-2	gamma-Chlordane ^a	0.0045	0.00080	0.00036	mg/kg	
60-57-1	Dieldrin	0.0020	0.00080	0.00055	mg/kg	
72-54-8	4,4'-DDD	0.0061	0.00080	0.00074	mg/kg	
72-55-9	4,4'-DDE	ND	0.00080	0.00071	mg/kg	
50-29-3	4,4'-DDT ^a	0.0025	0.00080	0.00071	mg/kg	
72-20-8	Endrin	ND	0.00080	0.00062	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00080	0.00063	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00080	0.00046	mg/kg	
959-98-8	Endosulfan-I	ND	0.00080	0.00046	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00080	0.00050	mg/kg	
76-44-8	Heptachlor	ND	0.00080	0.00069	mg/kg	
1024-57-3	Heptachlor epoxide	0.0023	0.00080	0.00056	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	0.00064	mg/kg	
53494-70-5	Endrin ketone	ND	0.00080	0.00058	mg/kg	
8001-35-2	Toxaphene	ND	0.020	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%		13-162%
877-09-8	Tetrachloro-m-xylene	59%		13-162%
2051-24-3	Decachlorobiphenyl	93%		10-180%
2051-24-3	Decachlorobiphenyl	1086% ^b		10-180%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8082A SW846 3546	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK20470.D	1	03/15/23 17:06	MLC	03/14/23 00:40	OP45197	GRK509
Run #2 ^a	RK20489.D	1	03/17/23 15:05	MLC	03/17/23 10:30	OP45197	GRK510

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.040	0.019	mg/kg	
11104-28-2	Aroclor 1221	ND	0.040	0.025	mg/kg	
11141-16-5	Aroclor 1232	ND	0.040	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.040	0.016	mg/kg	
12672-29-6	Aroclor 1248	ND	0.040	0.036	mg/kg	
11097-69-1	Aroclor 1254	ND	0.040	0.022	mg/kg	
11096-82-5	Aroclor 1260 ^b	ND	0.040	0.017	mg/kg	
11100-14-4	Aroclor 1268	ND	0.040	0.017	mg/kg	
37324-23-5	Aroclor 1262	ND	0.040	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%	57%	10-174%
877-09-8	Tetrachloro-m-xylene	56%	54%	10-174%
2051-24-3	Decachlorobiphenyl	65%	77%	10-195%
2051-24-3	Decachlorobiphenyl	81%	308% ^c	10-195%

(a) Confirmation run.

(b) Associated CCV outside of control limits low.

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-COMP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-5	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	81.8
Project:	Lyndon Road Landfill		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	4690	62	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Antimony	< 2.5	2.5	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Arsenic ^a	< 12	12	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Barium	58.6	25	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Beryllium	0.30	0.25	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Cadmium	< 0.62	0.62	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Calcium	35400	3100	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Chromium ^a	39.2	6.2	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Cobalt	6.6	6.2	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Copper ^a	47.5	16	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Iron	42500	310	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Lead	284	2.5	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Magnesium	11800	620	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Manganese	406	1.9	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Mercury	0.14	0.039	mg/kg	1	03/15/23	03/16/23	LM	SW846 7471B ¹	SW846 7471B ⁵
Nickel	25.8	5.0	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Potassium	< 1200	1200	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Selenium ^a	< 12	12	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Silver ^a	< 3.1	3.1	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Sodium	< 1200	1200	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Thallium ^a	< 6.2	6.2	mg/kg	5	03/15/23	03/20/23	ND	SW846 6010D ³	SW846 3050B ⁴
Vanadium	13.9	6.2	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴
Zinc	147	6.2	mg/kg	1	03/15/23	03/17/23	ND	SW846 6010D ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA53857

(2) Instrument QC Batch: MA53868

(3) Instrument QC Batch: MA53880

(4) Prep QC Batch: MP38411

(5) Prep QC Batch: MP38416

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-COMP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-5	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	81.8
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.40 NC		su	1	03/16/23 19:26	MM	SW846 9045D
Cyanide	0.94	0.29	mg/kg	1	03/14/23 12:55	MM	SW846 9012B/LACHAT
Cyanide Reactivity	< 12	12	mg/kg	1	03/14/23 13:25	MM	SW846 CHAP7/9012 B
Ignitability (Flashpoint)	> 200		Deg. F	1	03/16/23 19:44	MM	SW846 1010B/ASTM D93
Solids, Percent	81.8		%	1	03/14/23 15:51	RP	SM2540 G 18TH ED MOD
Sulfide Reactivity	< 120	120	mg/kg	1	03/16/23 10:55	MK	SW846 CHAP7/9034
Total Organic Carbon	38100	120	mg/kg	1	03/15/23 12:51	MB	LLOYD KAHN 1988 MOD
pH ^a	7.40		su	1	03/16/23 18:58	MM	SW846 9045D

(a) Temp of pH Reading: 20.7 Deg. C

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5A	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8260D SW846 1311	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F4069.D	5	03/22/23 13:18	NW	03/13/23 11:00	GP45583	V2F134
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.0025	0.0021	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	0.10	0.034	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.0050	0.0028	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.0050	0.0028	mg/l	
67-66-3	Chloroform ^a	0.0038	D022	6.0	0.0050	0.0025	mg/l	JB
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.0050	0.0025	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.0050	0.0030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.0050	0.0030	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.0050	0.0045	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.0050	0.0026	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.0050	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-120%
17060-07-0	1,2-Dichloroethane-D4	104%		64-135%
2037-26-5	Toluene-D8	102%		76-117%
460-00-4	4-Bromofluorobenzene	98%		72-122%

(a) Indicates analyte found in associated leachate blank.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5A	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8270E SW846 3510C	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E121502.D	1	03/17/23 16:38	JY	03/16/23 09:02	OP45222	E3E5607
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.020	0.0089	mg/l	
	3&4-Methylphenol	ND	D024	200	0.020	0.0088	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.014	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.013	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.0092	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.020	0.0017	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.020	0.0055	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.020	0.0033	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.010	0.0049	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0039	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.020	0.0064	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.020	0.0039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		10-73%
4165-62-2	Phenol-d5	32%		10-64%
118-79-6	2,4,6-Tribromophenol	81%		31-130%
4165-60-0	Nitrobenzene-d5	86%		28-126%
321-60-8	2-Fluorobiphenyl	78%		26-114%
1718-51-0	Terphenyl-d14	81%		16-122%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5A	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8151A SW846 3510C	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OA165543.D	1	03/18/23 05:20	RK	03/16/23 08:35	OP45223	GOA5852
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Herbicide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	0.0022	D016	10	0.0033	0.00098	mg/l	J
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0010	0.00020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	69%		13-169%
19719-28-9	2,4-DCAA	98%		13-169%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5A	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	SW846 8081B SW846 3510C	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89438.D	1	03/17/23 05:06	RK	03/16/23 10:20	OP45224	G6G3238
Run #2							

	Initial Volume	Final Volume
Run #1	30.0 ml	2.0 ml
Run #2		

Pesticide TCLP Leachate

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.000067	0.000040	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0033	0.0014	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.000067	0.000040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.000067	0.000030	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.000067	0.000040	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00013	0.000045	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.0017	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		30-137%
877-09-8	Tetrachloro-m-xylene	83%		30-137%
2051-24-3	Decachlorobiphenyl	60%		10-137%
2051-24-3	Decachlorobiphenyl	90%		10-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 7/1/11) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-TT04-DRUM-COMP-031023	Date Sampled:	03/10/23
Lab Sample ID:	JD61785-5A	Date Received:	03/10/23
Matrix:	SO - Soil	Percent Solids:	81.8
Project:	Lyndon Road Landfill		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Barium	0.51	D005	100	0.20	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Cadmium	< 0.0040	D006	1.0	0.0040	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Chromium	< 0.010	D007	5.0	0.010	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Lead	< 0.10	D008	5.0	0.10	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Mercury	< 0.00020	D009	0.20	0.00020	mg/l	1	03/17/23	03/19/23	LM	SW846 7470A ² SW846 7470A ⁴
Selenium	< 0.10	D010	1.0	0.10	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³
Silver	< 0.010	D011	5.0	0.010	mg/l	1	03/15/23	03/16/23	ND	SW846 6010D ¹ SW846 3010A ³

(1) Instrument QC Batch: MA53868

(2) Instrument QC Batch: MA53876

(3) Prep QC Batch: MP38422

(4) Prep QC Batch: MP38491

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261 7/1/11)

CHAIN OF CUSTODY

Page 1 of 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
EL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking # 4415 3344 2938	Bottle Order Control # JD 61785
SGS Quote # 33	SGS Job # MM-0832-198

EHSA-QAC-0023-04-FORM-Standard COC

Client / Reporting Information			Project Information										Requested Analysis										Matrix Codes											
Company Name: Ramboll			Project Name: Lyndon Landfill										V8260TCU20+ / SOL104 V8260TEL20+ AB22V20C20+, B202R2B, MB2L, H215H, B201F2ATCL, C104 C104C33U5A, SOL114 C104C33U5T40 TDCR, R4 TCLP FULL, RCRACAS TCLP ZHE										Matrix Codes: DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank											
Street Address: 333 W. Washington St			Street: 80 Lyndon Rd																															
City, State, Zip: Syracuse NY			Billing Information (if different from Report to): Company Name: Fairport NY																															
Project Contact: Robert Trent			Project #: 1940102910																															
Phone #: 585-747-7650			Street Address:																															
Sampler(s) Name(s): BHoynes R Bhatt			Client Purchase Order #:										City, State, Zip:																					
Project Manager: Robert Trent			Attention:										pH Check (Lab Use Only)																					
SGS Sample #			Collection										Number of preserved Bottles										LAB USE ONLY											
Field ID / Point of Collection			MECHD1 Visit #		Date	Time	Sampled by	Grav (G) (Core G)	Source Characterized (Y/N)	Matrix	# of bottles	PC	NaOH	HNO3	H2SO4	NO3	DI Water	MEOH	ENCODE															
1 LR-TB-030923					3/9/23	0930	BH	G	N	TB	2	2																						
2 LR-EB-030923					3/9/23		BH	G	N	EB	3																							
3 LR-TT04-DRUM-TOP-031023					3/9/23	1000	BH	G	N	SD	8				521		4		1	2		3												
4 LR-TT04-DRUM-BOTTOM-031023					3/9/23	1010	BH	G	N	SD	8				521		4		1	2		1												
5 LR-TT04-DRUM-COMP-031023					3/9/23	1100	BH	G	N	SD	8				521		4		1	2		1												
1 LR-TB-031023					3/10/23	0930	BH	G	N	TB	2	2																						
2 LR-EB-031023					3/10/23	1230	BH	G	N	EB	3				3																			
3 LR-TT04-031023															521		4		1	2		1												
4 LR-TT04-DRUM-TOP-031023					3/10/23	1000	BH	G	N	SD	8				521		4		1	2		1	1	2										
5 LR-TT04-DRUM-BOTTOM-031023					3/10/23	1010	BH	G	N	SD	8				521		4		1	2		1	1	2										
6 LR-TT04-DRUM-COMP-031023					3/10/23	1100	BH	G	N	SD	8				521		4		1	2		1	1	2										
Turn Around Time (Business Days)			Deliverable										Comments / Special Instructions																					
☒ 10 Business Days ☐ 5 Business Days ☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day ☐ Other All data available via Lablink			Approved By (SGS PM) / Date: Initial Assessment <i>3/10/23</i>										☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ NJ Reduced (Level 3) ☐ Full Tier 1 (Level 4) ☐ Commercial "C" ☐ NJ DKQP ☐ NYASP Category A ☐ NYASP Category B ☒ MA MCP Criteria ☐ CT RCP Criteria ☐ State Forms ☐ EDD Format NYSEEC Valid Values ☐ DOD-QSMS																					
Commercial "A" = Results only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data			Sample Custody must be documented below each time samples change possession, including courier delivery.										http://www.sgs.com/en/term																					
Relinquished by: <i>Bernie Hoynes</i> Date / Time: <i>3/10/23 15:51</i>			Received By: <i>A</i> Date / Time: <i>3/10/23 1600</i>										Relinquished by: <i>A</i> Date / Time: <i>3/10/23</i>										Received By: <i>2</i> Date / Time: <i>1620</i>											
Relinquished by: <i>3</i> Date / Time: <i>5</i>			Received By: <i>3</i> Date / Time: <i>5</i>										Relinquished by: <i>4</i> Date / Time: <i>5</i>										Received By: <i>4</i> Date / Time: <i>5</i>											
Relinquished by: <i>5</i> Date / Time: <i>5</i>			Received By: <i>5</i> Date / Time: <i>5</i>										Relinquished by: <i>5</i> Date / Time: <i>5</i>										Received By: <i>5</i> Date / Time: <i>5</i>											

$$\begin{array}{r} 2.0^\circ \\ 2.4^\circ \end{array}$$

JD61785: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD61785

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - TEST TRENCH

Date / Time Received: 3/10/2023 4:20:00 PM

Delivery Method:
Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (2.0); Cooler 2: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (2.0); Cooler 2: (2.4);

Cooler Security
Y or N
Y or N

- | | |
|--|---|
| 1. Custody Seals Present: ☒ ☐ | 3. COC Present: ☒ ☐ |
| 2. Custody Seals Intact: ☒ ☐ | 4. Smpl Dates/Time OK: ☒ ☐ |

Cooler Temperature
Y or N

- | | |
|---|-----------|
| 1. Temp criteria achieved: ☒ ☐ | |
| 2. Cooler temp verification: | |
| 3. Cooler media: | Ice (Bag) |
| 4. No. Coolers: | 2 |

Quality Control Preservation
Y or N
N/A

- | | |
|---|--|
| 1. Trip Blank present / cooler: ☒ ☐ ☐ | |
| 2. Trip Blank listed on COC: ☒ ☐ ☐ | |
| 3. Samples preserved properly: ☒ ☐ ☐ | |
| 4. VOCs headspace free: ☒ ☐ ☐ | |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: ☒ ☐ | |
| 2. Container labeling complete: ☒ ☐ | |
| 3. Sample container label / COC agree: ☒ ☐ | |

Sample Integrity - Condition
Y or N

- | | |
|---|--------|
| 1. Sample recvd within HT: ☒ ☐ | |
| 2. All containers accounted for: ☒ ☐ | |
| 3. Condition of sample: | Intact |

Sample Integrity - Instructions
Y or N
N/A

- | | |
|---|-------------------------------------|
| 1. Analysis requested is clear: ☒ ☐ | |
| 2. Bottles received for unspecified tests: ☐ ☒ | |
| 3. Sufficient volume recvd for analysis: ☒ ☐ | |
| 4. Compositing instructions clear: ☐ ☐ | ☒ |
| 5. Filtering instructions clear: ☐ ☐ | ☒ |

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments

 SM089-03
Rev. Date 12/7/17

JD61785: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD61785

Sampling Date: 03/10/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 16



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD61785

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD61785-1	03/10/23	09:30	BH	03/10/23	AQ	Trip Blank Soil	LR-TB-031023
* JD61785-2	03/10/23	12:30	BH	03/10/23	AQ	Equipment Blank	LR-EB-031023
JD61785-3	03/10/23	10:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-TOP-031023
JD61785-3A	03/10/23	10:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-TOP-031023
* JD61785-3B	03/10/23	10:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-TOP-031023
JD61785-4	03/10/23	10:10	BH	03/10/23	SO	Soil	LR-TT04-DRUM-BOTTOM-031023
JD61785-4A	03/10/23	10:10	BH	03/10/23	SO	Soil	LR-TT04-DRUM-BOTTOM-031023
* JD61785-4B	03/10/23	10:10	BH	03/10/23	SO	Soil	LR-TT04-DRUM-BOTTOM-031023
JD61785-5	03/10/23	11:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-COMP-031023
JD61785-5A	03/10/23	11:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-COMP-031023
* JD61785-5B	03/10/23	11:00	BH	03/10/23	SO	Soil	LR-TT04-DRUM-COMP-031023

* The following report applies to these samples only (14 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-EB-031023	
Lab Sample ID:	JD61785-2	Date Sampled: 03/10/23
Matrix:	AQ - Equipment Blank	Date Received: 03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q14975.D	1	03/17/23 12:11	AFL	03/15/23 10:00	F:OP95901	F:S6Q227
Run #2							

	Initial Volume	Final Volume
Run #1	550 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0073	0.0036	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0036	0.00091	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00045	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00045	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00045	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00055	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00045	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00055	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00076	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00045	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00091	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0018	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00091	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00091	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00091	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0018	0.00091	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00091	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0018	0.0010	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0073	0.0036	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0073	0.0036	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0073	0.0037	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0018	0.00091	ug/l	
31506-32-8	MeFOSA	ND	0.0018	0.00091	ug/l	
4151-50-2	EtFOSA	ND	0.0018	0.00091	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-EB-031023		
Lab Sample ID:	JD61785-2	Date Sampled:	03/10/23
Matrix:	AQ - Equipment Blank	Date Received:	03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0018	0.00091	ug/l	
2991-50-6	EtFOSAA	ND	0.0018	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.018	0.0091	ug/l	
1691-99-2	EtFOSE	ND	0.018	0.0091	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0073	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0073	0.0018	ug/l	
377-73-1	PFMPA	ND	0.0036	0.00091	ug/l	
863090-89-5	PFMBA	ND	0.0036	0.0010	ug/l	
151772-58-6	NFDHA	ND	0.0036	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0073	0.0018	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0073	0.0018	ug/l	
113507-82-7	PFEEESA	ND	0.0036	0.00091	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0091	0.0045	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.045	0.0091	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.045	0.0091	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	111%		20-150%
	13C5-PFPeA	106%		20-150%
	13C5-PFHxA	107%		20-150%
	13C4-PFHpA	106%		20-150%
	13C8-PFOA	98%		20-150%
	13C9-PFNA	110%		20-150%
	13C6-PFDA	101%		20-150%
	13C7-PFUnDA	100%		20-150%
	13C2-PFDoDA	90%		20-150%
	13C2-PFTeDA	79%		20-150%
	13C3-PFBS	107%		20-150%
	13C3-PFHxS	111%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-EB-031023		
Lab Sample ID:	JD61785-2	Date Sampled:	03/10/23
Matrix:	AQ - Equipment Blank	Date Received:	03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	105%		20-150%
	13C8-FOSA	93%		20-150%
	d3-MeFOSA	79%		20-150%
	d5-EtFOSA	82%		20-150%
	d3-MeFOSAA	105%		20-150%
	d5-EtFOSAA	98%		20-150%
	d7-MeFOSE	88%		20-150%
	d9-EtFOSE	86%		20-150%
	13C2-4:2FTS	110%		20-150%
	13C2-6:2FTS	115%		20-150%
	13C2-8:2FTS	97%		20-150%
	13C3-HFPO-DA	109%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT04-DRUM-TOP-031023		
Lab Sample ID:	JD61785-3B	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	79.4
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15137.D	1	03/21/23 23:09	AFL	03/15/23 09:00	F:OP95900	F:S6Q229
Run #2							

	Initial Weight	Final Volume
Run #1	5.00 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
---------	----------	--------	----	-----	-------	---

PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0010	0.00063	mg/kg	
2706-90-3	Perfluoropentanoic acid	0.00030	0.00050	0.00013	mg/kg	J
307-24-4	Perfluorohexanoic acid	0.00027	0.00025	0.00013	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00025	0.00013	mg/kg	
335-67-1	Perfluorooctanoic acid	0.0011	0.00025	0.00013	mg/kg	
375-95-1	Perfluorononanoic acid	0.00017	0.00025	0.00014	mg/kg	J
335-76-2	Perfluorodecanoic acid	0.00020	0.00025	0.00013	mg/kg	J
2058-94-8	Perfluoroundecanoic acid	ND	0.00025	0.00017	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00025	0.00013	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00025	0.00013	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00025	0.00013	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00025	0.00013	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00025	0.00020	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	0.00058	0.00025	0.00020	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	0.00018	0.00025	0.00018	mg/kg	J
1763-23-1	Perfluorooctanesulfonic acid	0.0282	0.00025	0.00013	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00025	0.00023	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00025	0.00018	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00025	0.00019	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0010	0.00050	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0010	0.00050	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0010	0.00076	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	0.00035	0.00025	0.00013	mg/kg	
31506-32-8	MeFOSA	ND	0.00025	0.00017	mg/kg	
4151-50-2	EtFOSA	ND	0.00025	0.00013	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TT04-DRUM-TOP-031023		
Lab Sample ID:	JD61785-3B	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	79.4
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00025	0.00020	mg/kg	
2991-50-6	EtFOSAA	0.00088	0.00025	0.00025	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0025	0.0013	mg/kg	
1691-99-2	EtFOSE	ND	0.0025	0.0013	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0010	0.00036	mg/kg	
919005-14-4	ADONA	ND	0.0010	0.00042	mg/kg	
377-73-1	PFMPA	ND	0.00050	0.00025	mg/kg	
863090-89-5	PFMBA	ND	0.00050	0.00025	mg/kg	
151772-58-6	NFDHA	ND	0.00050	0.00031	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0010	0.00055	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0010	0.00050	mg/kg	
113507-82-7	PFEESA	ND	0.00050	0.00025	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0013	0.00064	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0063	0.0015	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0063	0.0016	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	84%		20-150%
	13C5-PFPeA	82%		20-150%
	13C5-PFHxA	86%		20-150%
	13C4-PFHpA	86%		20-150%
	13C8-PFOA	85%		20-150%
	13C9-PFNA	80%		20-150%
	13C6-PFDA	84%		20-150%
	13C7-PFUnDA	87%		20-150%
	13C2-PFDoDA	83%		20-150%
	13C2-PFTeDA	98%		20-150%
	13C3-PFBS	79%		20-150%
	13C3-PFHxS	83%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT04-DRUM-TOP-031023	
Lab Sample ID:	JD61785-3B	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 79.4
Project:	Lyndon Road Landfill	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	72%		20-150%
	13C8-FOSA	90%		20-150%
	d3-MeFOSA	78%		20-150%
	d5-EtFOSA	78%		20-150%
	d3-MeFOSAA	105%		20-150%
	d5-EtFOSAA	128%		20-150%
	d7-MeFOSE	78%		20-150%
	d9-EtFOSE	67%		20-150%
	13C2-4:2FTS	85%		20-150%
	13C2-6:2FTS	94%		20-150%
	13C2-8:2FTS	89%		20-150%
	13C3-HFPO-DA	76%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	
Lab Sample ID:	JD61785-4B	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 83.7
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15140.D	1	03/21/23 23:51	AFL	03/15/23 09:00	F:OP95900	F:S6Q229
Run #2 ^b	6Q15206.D	5	03/22/23 21:04	AFL	03/15/23 09:00	F:OP95900	F:S6Q230

	Initial Weight	Final Volume
Run #1	5.01 g	5.0 ml
Run #2	5.01 g	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.00095	0.00060	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00048	0.00012	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00024	0.00012	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00024	0.00012	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00029	0.00024	0.00012	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00024	0.00014	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00024	0.00012	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00024	0.00016	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00024	0.00012	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00024	0.00012	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00024	0.00012	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00024	0.00012	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00024	0.00019	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00024	0.00019	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00024	0.00017	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0040	0.00024	0.00012	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00024	0.00022	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00024	0.00017	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00024	0.00018	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.00095	0.00048	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.00095	0.00048	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.00095	0.00072	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00024	0.00012	mg/kg	
31506-32-8	MeFOSA	ND	0.00024	0.00016	mg/kg	
4151-50-2	EtFOSA	ND	0.00024	0.00012	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023		
Lab Sample ID:	JD61785-4B	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	83.7
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00024	0.00019	mg/kg	
2991-50-6	EtFOSAA	ND ^c	0.0012	0.0012	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0024	0.0012	mg/kg	
1691-99-2	EtFOSE	ND	0.0024	0.0012	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.00095	0.00034	mg/kg	
919005-14-4	ADONA	ND	0.00095	0.00040	mg/kg	
377-73-1	PFMPA	ND	0.00048	0.00024	mg/kg	
863090-89-5	PFMBA	ND	0.00048	0.00024	mg/kg	
151772-58-6	NFDHA	ND	0.00048	0.00029	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.00095	0.00052	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.00095	0.00048	mg/kg	
113507-82-7	PFEESA	ND	0.00048	0.00024	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0012	0.00061	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0060	0.0014	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0060	0.0015	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	82%	84%	20-150%
	13C5-PFPeA	82%	80%	20-150%
	13C5-PFHxA	82%	78%	20-150%
	13C4-PFHpA	86%	80%	20-150%
	13C8-PFOA	83%	80%	20-150%
	13C9-PFNA	85%	81%	20-150%
	13C6-PFDA	91%	80%	20-150%
	13C7-PFUnDA	98%	84%	20-150%
	13C2-PFDoDA	94%	79%	20-150%
	13C2-PFTeDA	101%	82%	20-150%
	13C3-PFBS	83%	73%	20-150%
	13C3-PFHxS	79%	81%	20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT04-DRUM-BOTTOM-031023	
Lab Sample ID:	JD61785-4B	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 83.7
Project:	Lyndon Road Landfill	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	79%	76%	20-150%
	13C8-FOSA	92%	83%	20-150%
	d3-MeFOSA	69%	78%	20-150%
	d5-EtFOSA	65%	84%	20-150%
	d3-MeFOSAA	105%	92%	20-150%
	d5-EtFOSAA	155% ^d	101%	20-150%
	d7-MeFOSE	70%	80%	20-150%
	d9-EtFOSE	61%	76%	20-150%
	13C2-4:2FTS	87%	84%	20-150%
	13C2-6:2FTS	102%	83%	20-150%
	13C2-8:2FTS	99%	88%	20-150%
	13C3-HFPO-DA	80%	81%	20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Dilution required due to matrix interference (internal standard failure). Analysis performed at SGS Orlando, FL.

(c) Result is from Run# 2

(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5B	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q15141.D	1	03/22/23 00:05	AFL	03/15/23 09:00	F:OP95900	F:S6Q229
Run #2							

	Initial Weight	Final Volume
Run #1	5.00 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.00098	0.00061	mg/kg	
2706-90-3	Perfluoropentanoic acid	0.00016	0.00049	0.00012	mg/kg	J
307-24-4	Perfluorohexanoic acid	0.00020	0.00024	0.00012	mg/kg	J
375-85-9	Perfluoroheptanoic acid	ND	0.00024	0.00012	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00056	0.00024	0.00012	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00024	0.00014	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00024	0.00012	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00024	0.00016	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00024	0.00012	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00024	0.00012	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00024	0.00012	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00024	0.00012	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00024	0.00019	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00024	0.00019	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00024	0.00018	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0096	0.00024	0.00012	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00024	0.00022	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00024	0.00017	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00024	0.00018	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.00098	0.00049	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.00098	0.00049	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.00098	0.00073	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00024	0.00012	mg/kg	
31506-32-8	MeFOSA	ND	0.00024	0.00017	mg/kg	
4151-50-2	EtFOSA	ND	0.00024	0.00012	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-TT04-DRUM-COMP-031023		
Lab Sample ID:	JD61785-5B	Date Sampled:	03/10/23
Matrix:	SO - Soil	Date Received:	03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	81.8
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00024	0.00019	mg/kg	
2991-50-6	EtFOSAA	ND	0.00024	0.00024	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0024	0.0012	mg/kg	
1691-99-2	EtFOSE	ND	0.0024	0.0012	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.00098	0.00035	mg/kg	
919005-14-4	ADONA	ND	0.00098	0.00041	mg/kg	
377-73-1	PFMPA	ND	0.00049	0.00024	mg/kg	
863090-89-5	PFMBA	ND	0.00049	0.00024	mg/kg	
151772-58-6	NFDHA	ND	0.00049	0.00030	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.00098	0.00054	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.00098	0.00049	mg/kg	
113507-82-7	PFEESA	ND	0.00049	0.00024	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0012	0.00062	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.0061	0.0014	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.0061	0.0016	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	79%		20-150%
	13C5-PFPeA	73%		20-150%
	13C5-PFHxA	73%		20-150%
	13C4-PFHpA	76%		20-150%
	13C8-PFOA	82%		20-150%
	13C9-PFNA	88%		20-150%
	13C6-PFDA	76%		20-150%
	13C7-PFUnDA	83%		20-150%
	13C2-PFDoDA	82%		20-150%
	13C2-PFTeDA	100%		20-150%
	13C3-PFBS	73%		20-150%
	13C3-PFHxS	74%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-TT04-DRUM-COMP-031023	
Lab Sample ID:	JD61785-5B	Date Sampled: 03/10/23
Matrix:	SO - Soil	Date Received: 03/10/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 81.8
Project:	Lyndon Road Landfill	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	78%		20-150%
	13C8-FOSA	94%		20-150%
	d3-MeFOSA	74%		20-150%
	d5-EtFOSA	68%		20-150%
	d3-MeFOSAA	112%		20-150%
	d5-EtFOSAA	135%		20-150%
	d7-MeFOSE	70%		20-150%
	d9-EtFOSE	61%		20-150%
	13C2-4:2FTS	85%		20-150%
	13C2-6:2FTS	91%		20-150%
	13C2-8:2FTS	94%		20-150%
	13C3-HFPO-DA	71%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

CHAIN OF CUSTODY

Page 1 of 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

[illegible]

2.0°
2.4°

JD61785: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD61785

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - TEST TRENCH

Date / Time Received: 3/10/2023 4:20:00 PM

Delivery Method:
Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (2.0); Cooler 2: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (2.0); Cooler 2: (2.4);

Cooler Security
Y or N
Y or N

- | | |
|--|---|
| 1. Custody Seals Present: ☒ ☐ | 3. COC Present: ☒ ☐ |
| 2. Custody Seals Intact: ☒ ☐ | 4. Smpl Dates/Time OK: ☒ ☐ |

Cooler Temperature
Y or N

- | | |
|---|-----------|
| 1. Temp criteria achieved: ☒ ☐ | |
| 2. Cooler temp verification: | |
| 3. Cooler media: | Ice (Bag) |
| 4. No. Coolers: | 2 |

Quality Control Preservation
Y or N
N/A

- | | |
|---|--|
| 1. Trip Blank present / cooler: ☒ ☐ ☐ | |
| 2. Trip Blank listed on COC: ☒ ☐ ☐ | |
| 3. Samples preserved properly: ☒ ☐ ☐ | |
| 4. VOCs headspace free: ☒ ☐ ☐ | |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: ☒ ☐ | |
| 2. Container labeling complete: ☒ ☐ | |
| 3. Sample container label / COC agree: ☒ ☐ | |

Sample Integrity - Condition
Y or N

- | | |
|---|--------|
| 1. Sample recvd within HT: ☒ ☐ | |
| 2. All containers accounted for: ☒ ☐ | |
| 3. Condition of sample: | Intact |

Sample Integrity - Instructions
Y or N
N/A

- | | |
|---|-------------------------------------|
| 1. Analysis requested is clear: ☒ ☐ | |
| 2. Bottles received for unspecified tests: ☐ ☒ | |
| 3. Sufficient volume recvd for analysis: ☒ ☐ | |
| 4. Compositing instructions clear: ☐ ☐ | ☒ |
| 5. Filtering instructions clear: ☐ ☐ | ☒ |

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments

 SM089-03
Rev. Date 12/7/17

JD61785: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD62631

Sampling Date: 03/22/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 24



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in blue ink, appearing to read "D. Chastain".

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD62631

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

* JD62631-1	03/22/23	16:45 RB	03/23/23	AQ	Equipment Blank	LR-EB-032223
JD62631-2	03/22/23	17:15 RB	03/23/23	AQ	Trip Blank Water	LT-TB-032223
JD62631-3	03/22/23	09:10 RB	03/23/23	AQ	Ground Water	LR-MW06-032223
* JD62631-3A	03/22/23	09:10 RB	03/23/23	AQ	Ground Water	LR-MW06-032223
JD62631-4	03/22/23	09:55 JL	03/23/23	AQ	Ground Water	LR-MW07-032223
* JD62631-4A	03/22/23	09:55 JL	03/23/23	AQ	Ground Water	LR-MW07-032223
JD62631-4D	03/22/23	09:55 JL	03/23/23	AQ	Water Dup/MSD	LR-MW07-032223_MSD
* JD62631-4DA	03/22/23	09:55 JL	03/23/23	AQ	Water Dup/MSD	LR-MW07-032223_MSD
JD62631-4S	03/22/23	09:55 JL	03/23/23	AQ	Water Matrix Spike	LR-MW07-032223_MS
* JD62631-4SA	03/22/23	09:55 JL	03/23/23	AQ	Water Matrix Spike	LR-MW07-032223_MS
JD62631-5	03/22/23	11:10 RB	03/23/23	AQ	Ground Water	LR-MW02-032223
* JD62631-5A	03/22/23	11:10 RB	03/23/23	AQ	Ground Water	LR-MW02-032223

Sample Summary

(continued)

Ramboll Americas

Job No: JD62631

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD62631-6	03/22/23	15:00 RB	03/23/23	AQ	Ground Water	LR-MW04-032223
* JD62631-6A	03/22/23	15:00 RB	03/23/23	AQ	Ground Water	LR-MW04-032223
JD62631-7	03/22/23	17:15 RB	03/23/23	AQ	Ground Water	LR-MW01-032223
* JD62631-7A	03/22/23	17:15 RB	03/23/23	AQ	Ground Water	LR-MW01-032223

* The following report applies to these samples only (14 day TAT).

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-EB-032223	
Lab Sample ID:	JD62631-1	Date Sampled: 03/22/23
Matrix:	AQ - Equipment Blank	Date Received: 03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16067.D	1	04/05/23 04:28	AFL	03/31/23 09:58	F:OP96192	F:S6Q239
Run #2							

	Initial Volume	Final Volume
Run #1	535 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0075	0.0037	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0037	0.00093	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0019	0.00047	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0019	0.00047	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0019	0.00047	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00057	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00047	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00056	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00056	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00047	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0019	0.00093	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0019	0.00093	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00093	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0019	0.00093	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.00093	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.00093	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.0011	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0075	0.0037	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0075	0.0037	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate ^b	ND	0.0075	0.0038	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0019	0.00093	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00093	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00093	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-EB-032223		
Lab Sample ID:	JD62631-1	Date Sampled:	03/22/23
Matrix:	AQ - Equipment Blank	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0019	0.00093	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.019	0.0093	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0093	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0075	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0075	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0037	0.00093	ug/l	
863090-89-5	PFMBA	ND	0.0037	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0037	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0075	0.0019	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0075	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0037	0.00093	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0093	0.0047	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.047	0.0093	ug/l	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.047	0.0093	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	98%		20-150%
	13C5-PFPeA	106%		20-150%
	13C5-PFHxA	103%		20-150%
	13C4-PFHpA	101%		20-150%
	13C8-PFOA	95%		20-150%
	13C9-PFNA	103%		20-150%
	13C6-PFDA	97%		20-150%
	13C7-PFUnDA	90%		20-150%
	13C2-PFDoDA	74%		20-150%
	13C2-PFTeDA	57%		20-150%
	13C3-PFBS	91%		20-150%
	13C3-PFHxS	93%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-EB-032223		
Lab Sample ID:	JD62631-1	Date Sampled:	03/22/23
Matrix:	AQ - Equipment Blank	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	98%		20-150%
	13C8-FOSA	75%		20-150%
	d3-MeFOSA	56%		20-150%
	d5-EtFOSA	52%		20-150%
	d3-MeFOSAA	85%		20-150%
	d5-EtFOSAA	82%		20-150%
	d7-MeFOSE	63%		20-150%
	d9-EtFOSE	59%		20-150%
	13C2-4:2FTS	103%		20-150%
	13C2-6:2FTS	108%		20-150%
	13C2-8:2FTS	97%		20-150%
	13C3-HFPO-DA	100%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW06-032223	Date Sampled:	03/22/23
Lab Sample ID:	JD62631-3A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16068.D	1	04/05/23 04:42	AFL	03/31/23 09:58	F:OP96192	F:S6Q239
Run #2							

Run #	Initial Volume	Final Volume
Run #1	460 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.107	0.0087	0.0043	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0043	0.0011	ug/l	
307-24-4	Perfluorohexanoic acid	0.0010	0.0022	0.00054	ug/l	J
375-85-9	Perfluoroheptanoic acid	ND	0.0022	0.00054	ug/l	
335-67-1	Perfluorooctanoic acid	0.0034	0.0022	0.00054	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0022	0.00066	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0022	0.00054	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0022	0.00065	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0022	0.00065	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0022	0.00091	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0022	0.00054	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0022	0.0011	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0022	0.0012	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0022	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0022	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0022	0.0022	0.0011	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0022	0.0011	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0022	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0022	0.0012	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0087	0.0043	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0087	0.0043	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate ^b	ND	0.0087	0.0045	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0022	0.0011	ug/l	
31506-32-8	MeFOSA	ND	0.0022	0.0011	ug/l	
4151-50-2	EtFOSA	ND	0.0022	0.0011	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-MW06-032223		
Lab Sample ID:	JD62631-3A	Date Sampled:	03/22/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0022	0.0011	ug/l	
2991-50-6	EtFOSAA	ND	0.0022	0.0014	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.022	0.011	ug/l	
1691-99-2	EtFOSE	ND	0.022	0.011	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0087	0.0022	ug/l	
919005-14-4	ADONA	ND	0.0087	0.0022	ug/l	
377-73-1	PFMPA	ND	0.0043	0.0011	ug/l	
863090-89-5	PFMBA	ND	0.0043	0.0012	ug/l	
151772-58-6	NFDHA	ND	0.0043	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0087	0.0022	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0087	0.0022	ug/l	
113507-82-7	PFEESA	ND	0.0043	0.0011	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	0.0054	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.054	0.011	ug/l	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.054	0.011	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	62%		20-150%
	13C5-PFPeA	101%		20-150%
	13C5-PFHxA	99%		20-150%
	13C4-PFHpA	97%		20-150%
	13C8-PFOA	90%		20-150%
	13C9-PFNA	83%		20-150%
	13C6-PFDA	76%		20-150%
	13C7-PFUnDA	61%		20-150%
	13C2-PFDoDA	44%		20-150%
	13C2-PFTeDA	41%		20-150%
	13C3-PFBS	93%		20-150%
	13C3-PFHxS	87%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-MW06-032223		
Lab Sample ID:	JD62631-3A	Date Sampled:	03/22/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	79%		20-150%
	13C8-FOSA	69%		20-150%
	d3-MeFOSA	40%		20-150%
	d5-EtFOSA	38%		20-150%
	d3-MeFOSAA	57%		20-150%
	d5-EtFOSAA	53%		20-150%
	d7-MeFOSE	45%		20-150%
	d9-EtFOSE	44%		20-150%
	13C2-4:2FTS	94%		20-150%
	13C2-6:2FTS	98%		20-150%
	13C2-8:2FTS	64%		20-150%
	13C3-HFPO-DA	93%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW07-032223	Date Sampled:	03/22/23
Lab Sample ID:	JD62631-4A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16073.D	1	04/05/23 05:52	AFL	03/31/23 09:58	F:OP96192	F:S6Q239
Run #2							

	Initial Volume	Final Volume
Run #1	505 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0079	0.0040	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00099	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00060	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00059	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00059	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00083	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00050	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00099	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.00099	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00099	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00099	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.00099	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.00099	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0020	0.0011	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0079	0.0040	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0079	0.0040	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate ^b	ND	0.0079	0.0041	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.00099	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00099	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00099	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-MW07-032223		
Lab Sample ID:	JD62631-4A	Date Sampled:	03/22/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.00099	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.0013	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0099	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0099	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0079	0.0020	ug/l	
919005-14-4	ADONA	ND	0.0079	0.0020	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00099	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0012	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0079	0.0020	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0079	0.0020	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00099	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0099	0.0050	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0099	ug/l	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.050	0.0099	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	92%		20-150%
	13C5-PFPeA	109%		20-150%
	13C5-PFHxA	104%		20-150%
	13C4-PFHpA	97%		20-150%
	13C8-PFOA	97%		20-150%
	13C9-PFNA	94%		20-150%
	13C6-PFDA	85%		20-150%
	13C7-PFUnDA	81%		20-150%
	13C2-PFDoDA	70%		20-150%
	13C2-PFTeDA	75%		20-150%
	13C3-PFBS	94%		20-150%
	13C3-PFHxS	98%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW07-032223		
Lab Sample ID:	JD62631-4A	Date Sampled:	03/22/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	80%		20-150%
	13C8-FOSA	78%		20-150%
	d3-MeFOSA	64%		20-150%
	d5-EtFOSA	62%		20-150%
	d3-MeFOSAA	76%		20-150%
	d5-EtFOSAA	69%		20-150%
	d7-MeFOSE	63%		20-150%
	d9-EtFOSE	64%		20-150%
	13C2-4:2FTS	109%		20-150%
	13C2-6:2FTS	114%		20-150%
	13C2-8:2FTS	90%		20-150%
	13C3-HFPO-DA	103%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW02-032223	Date Sampled:	03/22/23
Lab Sample ID:	JD62631-5A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16069.D	1	04/05/23 04:56	AFL	03/31/23 09:58	F:OP96192	F:S6Q239
Run #2 ^a	6Q16115.D	10	04/05/23 16:17	AFL	03/31/23 09:58	F:OP96192	F:S6Q240

	Initial Volume	Final Volume
Run #1	495 ml	5.0 ml
Run #2	495 ml	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.912 ^b	0.081	0.040	ug/l	
2706-90-3	Perfluoropentanoic acid	0.154	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	0.308	0.0020	0.00051	ug/l	
375-85-9	Perfluoroheptanoic acid	0.275	0.0020	0.00051	ug/l	
335-67-1	Perfluorooctanoic acid	5.47 ^b	0.020	0.0051	ug/l	
375-95-1	Perfluorononanoic acid	0.0079	0.0020	0.00062	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00051	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00061	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00061	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00085	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00051	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0490	0.0020	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0441	0.0020	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0738	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	0.0071	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0367	0.0020	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.0012	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND ^b	0.081	0.040	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND ^b	0.081	0.040	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND ^b	0.081	0.042	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.0010	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.0010	ug/l	

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW02-032223		
Lab Sample ID:	JD62631-5A	Date Sampled:	03/22/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.0010	ug/l	
2991-50-6	EtFOSAA	0.0042	0.0020	0.0013	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.010	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.010	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0081	0.0020	ug/l	
919005-14-4	ADONA	ND	0.0081	0.0020	ug/l	
377-73-1	PFMPA	ND	0.0040	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.0012	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0012	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0081	0.0020	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0081	0.0020	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.0010	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0051	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	0.0537	0.051	0.010	ug/l	
812-70-4	7:3 Fluorotelomer carboxylat c	ND	0.051	0.010	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	19% ^d	22%	20-150%
	13C5-PFPeA	60%	71%	20-150%
	13C5-PFHxA	98%	87%	20-150%
	13C4-PFHpA	112%	88%	20-150%
	13C8-PFOA	102%	97%	20-150%
	13C9-PFNA	101%	93%	20-150%
	13C6-PFDA	96%	98%	20-150%
	13C7-PFUnDA	93%	99%	20-150%
	13C2-PFDoDA	65%	59%	20-150%
	13C2-PFTeDA	43%	49%	20-150%
	13C3-PFBS	102%	105%	20-150%
	13C3-PFHxS	107%	86%	20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW02-032223	Date Sampled:	03/22/23
Lab Sample ID:	JD62631-5A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	101%	78%	20-150%
	13C8-FOSA	106%	90%	20-150%
	d3-MeFOSA	63%	55%	20-150%
	d5-EtFOSA	54%	61%	20-150%
	d3-MeFOSAA	136%	90%	20-150%
	d5-EtFOSAA	135%	87%	20-150%
	d7-MeFOSE	63%	55%	20-150%
	d9-EtFOSE	56%	49%	20-150%
	13C2-4:2FTS	173% ^d	106%	20-150%
	13C2-6:2FTS	221% ^d	127%	20-150%
	13C2-8:2FTS	173% ^d	57%	20-150%
	13C3-HFPO-DA	70%	90%	20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Result is from Run# 2

(c) Associated Low Level CCV outside of control limits high, sample was ND.

(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW04-032223		
Lab Sample ID:	JD62631-6A	Date Sampled:	03/22/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16070.D	1	04/05/23 05:10	AFL	03/31/23 09:58	F:OP96192	F:S6Q239
Run #2 ^a	6Q16116.D	5	04/05/23 16:31	AFL	03/31/23 09:58	F:OP96192	F:S6Q240

	Initial Volume	Final Volume
Run #1	508 ml	5.0 ml
Run #2	508 ml	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.453	0.0079	0.0039	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0646	0.0039	0.00098	ug/l	
307-24-4	Perfluorohexanoic acid	0.0712	0.0020	0.00049	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0606	0.0020	0.00049	ug/l	
335-67-1	Perfluorooctanoic acid	1.07 ^b	0.0098	0.0025	ug/l	
375-95-1	Perfluorononanoic acid	0.0022	0.0020	0.00060	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00049	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00059	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00059	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00083	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00049	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0155	0.0020	0.00098	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0170	0.0020	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0297	0.0020	0.00098	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	0.0033	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0378	0.0020	0.00098	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.00098	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.00098	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.0011	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND ^b	0.039	0.020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND ^b	0.039	0.020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate ^c	ND	0.0079	0.0040	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.00098	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00098	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00098	ug/l	

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-MW04-032223		
Lab Sample ID:	JD62631-6A	Date Sampled:	03/22/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.00098	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.0013	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0098	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0098	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0079	0.0020	ug/l	
919005-14-4	ADONA	ND	0.0079	0.0020	ug/l	
377-73-1	PFMPA	ND	0.0039	0.00098	ug/l	
863090-89-5	PFMBA	ND	0.0039	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0039	0.0012	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0079	0.0020	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0079	0.0020	ug/l	
113507-82-7	PFEESA	ND	0.0039	0.00098	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0098	0.0049	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.049	0.0098	ug/l	
812-70-4	7:3 Fluorotelomer carboxylat c	ND	0.049	0.0098	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	29%	30%	20-150%
	13C5-PFPeA	73%	91%	20-150%
	13C5-PFHxA	96%	95%	20-150%
	13C4-PFHpA	107%	96%	20-150%
	13C8-PFOA	98%	98%	20-150%
	13C9-PFNA	106%	106%	20-150%
	13C6-PFDA	99%	93%	20-150%
	13C7-PFUnDA	91%	81%	20-150%
	13C2-PFDoDA	66%	58%	20-150%
	13C2-PFTeDA	46%	42%	20-150%
	13C3-PFBS	99%	93%	20-150%
	13C3-PFHxS	93%	90%	20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW04-032223	Date Sampled:	03/22/23
Lab Sample ID:	JD62631-6A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	90%	77%	20-150%
	13C8-FOSA	81%	79%	20-150%
	d3-MeFOSA	51%	51%	20-150%
	d5-EtFOSA	41%	47%	20-150%
	d3-MeFOSAA	94%	96%	20-150%
	d5-EtFOSAA	99%	82%	20-150%
	d7-MeFOSE	51%	53%	20-150%
	d9-EtFOSE	42%	46%	20-150%
	13C2-4:2FTS	191% ^d	89%	20-150%
	13C2-6:2FTS	189% ^d	96%	20-150%
	13C2-8:2FTS	123%	54%	20-150%
	13C3-HFPO-DA	75%	83%	20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Result is from Run# 2

(c) Associated Low Level CCV outside of control limits high, sample was ND.

(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-MW01-032223	Date Sampled:	03/22/23
Lab Sample ID:	JD62631-7A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16076.D	1	04/05/23 06:34	AFL	03/31/23 09:58	F:OP96192	F:S6Q239
Run #2 ^a	6Q16117.D	10	04/05/23 16:45	AFL	03/31/23 09:58	F:OP96192	F:S6Q240

	Initial Volume	Final Volume
Run #1	507 ml	5.0 ml
Run #2	507 ml	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.272	0.0079	0.0039	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0841	0.0039	0.00099	ug/l	
307-24-4	Perfluorohexanoic acid	0.130	0.0020	0.00049	ug/l	
375-85-9	Perfluoroheptanoic acid	0.174	0.0020	0.00049	ug/l	
335-67-1	Perfluorooctanoic acid	4.10 ^b	0.020	0.0049	ug/l	
375-95-1	Perfluorononanoic acid	0.0248	0.0020	0.00060	ug/l	
335-76-2	Perfluorodecanoic acid	0.0030	0.0020	0.00049	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0024	0.0020	0.00059	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00059	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00083	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00049	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0530	0.0020	0.00099	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0661	0.0020	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.183	0.0020	0.00099	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	0.0411	0.0020	0.00099	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.847 ^b	0.020	0.0099	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.00099	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.00099	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.0011	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND ^b	0.079	0.039	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND ^b	0.079	0.039	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate ^c	ND	0.0079	0.0041	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	0.0018	0.0020	0.00099	ug/l	J
31506-32-8	MeFOSA	ND	0.0020	0.00099	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00099	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-MW01-032223		
Lab Sample ID:	JD62631-7A	Date Sampled:	03/22/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0070	0.0020	0.00099	ug/l	
2991-50-6	EtFOSAA	0.0590	0.0020	0.0013	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0099	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0099	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0079	0.0020	ug/l	
919005-14-4	ADONA	ND	0.0079	0.0020	ug/l	
377-73-1	PFMPA	ND	0.0039	0.00099	ug/l	
863090-89-5	PFMBA	ND	0.0039	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0039	0.0012	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0079	0.0020	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0079	0.0020	ug/l	
113507-82-7	PFEESA	ND	0.0039	0.00099	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0099	0.0049	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.049	0.0099	ug/l	
812-70-4	7:3 Fluorotelomer carboxylat c	ND	0.049	0.0099	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	52%	45%	20-150%
	13C5-PFPeA	74%	83%	20-150%
	13C5-PFHxA	106%	86%	20-150%
	13C4-PFHpA	107%	81%	20-150%
	13C8-PFOA	91%	84%	20-150%
	13C9-PFNA	78%	62%	20-150%
	13C6-PFDA	53%	39%	20-150%
	13C7-PFUnDA	45%	42%	20-150%
	13C2-PFDoDA	49%	40%	20-150%
	13C2-PFTeDA	50%	49%	20-150%
	13C3-PFBS	84%	110%	20-150%
	13C3-PFHxS	71%	72%	20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-MW01-032223	Date Sampled:	03/22/23
Lab Sample ID:	JD62631-7A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	56%	39%	20-150%
	13C8-FOSA	63%	45%	20-150%
	d3-MeFOSA	44%	41%	20-150%
	d5-EtFOSA	40%	32%	20-150%
	d3-MeFOSAA	87%	51%	20-150%
	d5-EtFOSAA	96%	50%	20-150%
	d7-MeFOSE	53%	41%	20-150%
	d9-EtFOSE	46%	40%	20-150%
	13C2-4:2FTS	187% ^d	93%	20-150%
	13C2-6:2FTS	172% ^d	94%	20-150%
	13C2-8:2FTS	94%	49%	20-150%
	13C3-HFPO-DA	76%	80%	20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Result is from Run# 2

(c) Associated Low Level CCV outside of control limits high, sample was ND.

(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



GW
WFB
NTM

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200
www.sgs.com/ehsusa

Page 1 of 1

FEDEX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job #
	MM-031423-70
	JD62631
Matrix Codes	
DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	

Client / Reporting Information		Project Information	
Company Name: Ramboll	Project Name: Cyden Road Landfill		
Street Address: 333 W. Washington St	Street: 80 Cyden Rd		
City: Syracuse NY	City: Syracuse NY		
State: NY	State: NY		
Zip: 13204	Zip: 13204		
Project Contact: R. Trent	Project #: 194002910		
Email: R.Trent@ramboll.com	Street Address:		
Phone #: 315 7477650	Client Purchase Order #:		
Samplers' Name(s): R. Trent	City:		
Phone #:	State:		
Project Manager:	Zip:		
Attention:			
Collection			
Sos Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date
1	LR-EB-032223	1	3/22/23 1675
2	LR-TB-032223	2	3/22/23 0900
3	LR-MW06-032223	3	3/22/23 0910
4	LR-MW07-032223-MSD	4	3/22/23 0955
5	LR-MW07-032223-MS	5	3/22/23 0955
6	LR-MW07-032223	6	3/22/23 0955
7	LR-MW02-032223	7	3/22/23 1610
8	LR-MW01-032223	8	3/22/23 1500
9	LR-MW01-032223	9	3/22/23 1715
Number of Bottles			
# of bottles	HC	HC	HC
3	2	1	1
16	3	1	1
16	3	1	1
16	3	1	1
16	3	1	1
5	3	1	1
5	3	1	1
5	3	1	1

Turn Around Time (Business Days)		Deliverable	
Approved By (SGS PM) / Date:		Comments / Special Instructions	
☒ 10 Business Days ☐ 5 Business Days ☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day ☐ Other		1L 8270 broken in transit DR 3B Vials not labeled bag only • 4x B50m Herb/pest/PCE	
All data available via SGS Engage		http://www.sgs.com/en/terms-and-conditions	

Sample Custody must be documented below each time samples change possession, including courier delivery.	
Relinquished by:	Received By:
1	1
Relinquished by:	Received By:
3	3
Relinquished by:	Received By:
5	5
Custody Seal #	Intact
	☐ Intact ☐ Not intact ☐ Absent
Therm ID: (40)	On Ice
See Sample Receipt Summary	Cooler Temp. °C
	3.0, 2.8, 4.0, 4.0, 4.0

EHSQA-0023-05 Rev Date: 8/5/22

JD62631: Chain of Custody

Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD62631

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - GROUNDWATE

Date / Time Received: 3/23/2023 10:00:00 AM

Delivery Method: FedEx

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0); Cooler 2: (2.8); Cooler 3: (4.0); Cooler 4: (4.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.8); Cooler 2: (2.6); Cooler 3: (3.8); Cooler 4: (3.9);

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: IR Gun
3. Cooler media: Ice (Bag)
4. No. Coolers: 4

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Broken / Leaking

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments

Sample -6: Received 1 of 2, 950mL unpreserved amber glass volumes for 8270 analysis broken. Limited volume.

JD62631: Chain of Custody

Page 2 of 3

Responded to by: Marie Meidhof

Response Date: 3/27

Ok proceed; note limited 8270 volume for -6.

JD62631: Chain of Custody
Page 3 of 3

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD62640

Sampling Date: 03/21/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 20



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in blue ink, appearing to read "D. Chastain".

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD62640

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD62640-1	03/21/23	17:10 RB	03/23/23	AQ	Trip Blank Water	TB-032123
* JD62640-2	03/21/23	16:30 RB	03/23/23	AQ	Equipment Blank	EB-032123
JD62640-3	03/21/23	00:00	03/23/23	AQ	Ground Water	DUP-032123
* JD62640-3A	03/21/23	00:00	03/23/23	AQ	Ground Water	DUP-032123
JD62640-4	03/21/23	11:20 RB	03/23/23	AQ	Ground Water	LR-MW05-032123
* JD62640-4A	03/21/23	11:20 RB	03/23/23	AQ	Ground Water	LR-MW05-032123
JD62640-5	03/21/23	11:25 JL	03/23/23	AQ	Ground Water	LR-MW08-032123
* JD62640-5A	03/21/23	11:25 JL	03/23/23	AQ	Ground Water	LR-MW08-032123
JD62640-6	03/21/23	12:10 JL	03/23/23	AQ	Ground Water	LR-MW03-032123
* JD62640-6A	03/21/23	12:10 JL	03/23/23	AQ	Ground Water	LR-MW03-032123

* The following report applies to these samples only (14 day TAT).

Report of Analysis

Page 1 of 3

Client Sample ID:	EB-032123	Date Sampled:	03/21/23
Lab Sample ID:	JD62640-2	Date Received:	03/23/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16191.D	1	04/06/23 14:18	AFL	03/31/23 09:58	F:OP96192	F:S6Q241
Run #2							

Run #	Initial Volume	Final Volume
Run #1	545 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0073	0.0037	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0037	0.00092	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0018	0.00046	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0018	0.00046	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0018	0.00046	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00056	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00046	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00055	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00046	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0018	0.00092	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0018	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00092	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00092	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0018	0.00092	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0018	0.00092	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00092	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0018	0.0010	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0073	0.0037	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0073	0.0037	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0073	0.0038	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0018	0.00092	ug/l	
31506-32-8	MeFOSA	ND	0.0018	0.00092	ug/l	
4151-50-2	EtFOSA	ND	0.0018	0.00092	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	EB-032123		
Lab Sample ID:	JD62640-2	Date Sampled:	03/21/23
Matrix:	AQ - Equipment Blank	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0018	0.00092	ug/l	
2991-50-6	EtFOSAA	ND	0.0018	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.018	0.0092	ug/l	
1691-99-2	EtFOSE	ND	0.018	0.0092	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0073	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0073	0.0018	ug/l	
377-73-1	PFMPA	ND	0.0037	0.00092	ug/l	
863090-89-5	PFMBA	ND	0.0037	0.0010	ug/l	
151772-58-6	NFDHA	ND	0.0037	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0073	0.0018	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0073	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0037	0.00092	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0092	0.0046	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.046	0.0092	ug/l	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.046	0.0092	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	98%		20-150%
	13C5-PFPeA	101%		20-150%
	13C5-PFHxA	101%		20-150%
	13C4-PFHpA	98%		20-150%
	13C8-PFOA	89%		20-150%
	13C9-PFNA	85%		20-150%
	13C6-PFDA	85%		20-150%
	13C7-PFUnDA	74%		20-150%
	13C2-PFDoDA	57%		20-150%
	13C2-PFTeDA	49%		20-150%
	13C3-PFBS	91%		20-150%
	13C3-PFHxS	85%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	EB-032123	Date Sampled:	03/21/23
Lab Sample ID:	JD62640-2	Date Received:	03/23/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	86%		20-150%
	13C8-FOSA	72%		20-150%
	d3-MeFOSA	49%		20-150%
	d5-EtFOSA	45%		20-150%
	d3-MeFOSAA	92%		20-150%
	d5-EtFOSAA	83%		20-150%
	d7-MeFOSE	53%		20-150%
	d9-EtFOSE	48%		20-150%
	13C2-4:2FTS	107%		20-150%
	13C2-6:2FTS	109%		20-150%
	13C2-8:2FTS	96%		20-150%
	13C3-HFPO-DA	102%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	DUP-032123		
Lab Sample ID:	JD62640-3A	Date Sampled:	03/21/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16078.D	1	04/05/23 07:02	AFL	03/31/23 09:58	F:OP96192	F:S6Q239
Run #2							

	Initial Volume	Final Volume
Run #1	480 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.152	0.0083	0.0042	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0062	0.0042	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	0.0114	0.0021	0.00052	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0022	0.0021	0.00052	ug/l	
335-67-1	Perfluorooctanoic acid	0.0254	0.0021	0.00052	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0021	0.00064	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0021	0.00052	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0021	0.00063	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	0.00063	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	0.00088	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	0.00052	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0021	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0021	0.0012	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0021	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0038	0.0021	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	0.0010	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	0.0012	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0083	0.0042	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0083	0.0042	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate ^b	ND	0.0083	0.0043	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0021	0.0010	ug/l	
31506-32-8	MeFOSA	ND	0.0021	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0021	0.0010	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	DUP-032123		
Lab Sample ID:	JD62640-3A	Date Sampled:	03/21/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0021	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	0.0014	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.021	0.010	ug/l	
1691-99-2	EtFOSE	ND	0.021	0.010	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0083	0.0021	ug/l	
919005-14-4	ADONA	ND	0.0083	0.0021	ug/l	
377-73-1	PFMPA	ND	0.0042	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0042	0.0012	ug/l	
151772-58-6	NFDHA	ND	0.0042	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0083	0.0021	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0083	0.0021	ug/l	
113507-82-7	PFEESA	ND	0.0042	0.0010	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0052	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.052	0.010	ug/l	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.052	0.010	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	83%		20-150%
	13C5-PFPeA	98%		20-150%
	13C5-PFHxA	103%		20-150%
	13C4-PFHpA	99%		20-150%
	13C8-PFOA	91%		20-150%
	13C9-PFNA	102%		20-150%
	13C6-PFDA	83%		20-150%
	13C7-PFUnDA	69%		20-150%
	13C2-PFDoDA	54%		20-150%
	13C2-PFTeDA	47%		20-150%
	13C3-PFBS	94%		20-150%
	13C3-PFHxS	92%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	DUP-032123	Date Sampled:	03/21/23
Lab Sample ID:	JD62640-3A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	91%		20-150%
	13C8-FOSA	83%		20-150%
	d3-MeFOSA	52%		20-150%
	d5-EtFOSA	42%		20-150%
	d3-MeFOSAA	91%		20-150%
	d5-EtFOSAA	90%		20-150%
	d7-MeFOSE	55%		20-150%
	d9-EtFOSE	50%		20-150%
	13C2-4:2FTS	91%		20-150%
	13C2-6:2FTS	109%		20-150%
	13C2-8:2FTS	77%		20-150%
	13C3-HFPO-DA	94%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW05-032123	Date Sampled:	03/21/23
Lab Sample ID:	JD62640-4A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16079.D	1	04/05/23 07:16	AFL	03/31/23 09:58	F:OP96192	F:S6Q239
Run #2							

	Initial Volume	Final Volume
Run #1	525 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.156	0.0076	0.0038	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0055	0.0038	0.00095	ug/l	
307-24-4	Perfluorohexanoic acid	0.0113	0.0019	0.00048	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0026	0.0019	0.00048	ug/l	
335-67-1	Perfluorooctanoic acid	0.0240	0.0019	0.00048	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00058	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00048	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00057	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00057	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00048	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0019	0.00095	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0011	0.0019	0.00095	ug/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00095	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0038	0.0019	0.00095	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.00095	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.00095	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.0011	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0076	0.0038	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0076	0.0038	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate ^b	ND	0.0076	0.0039	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0019	0.00095	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00095	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00095	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-MW05-032123		
Lab Sample ID:	JD62640-4A	Date Sampled:	03/21/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0019	0.00095	ug/l	
2991-50-6	EtFOSAA	0.0013	0.0019	0.0013	ug/l	J

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.019	0.0095	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0095	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0076	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0076	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0038	0.00095	ug/l	
863090-89-5	PFMBA	ND	0.0038	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0038	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0076	0.0019	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0076	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0038	0.00095	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0095	0.0048	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.048	0.0095	ug/l	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.048	0.0095	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	69%		20-150%
	13C5-PFPeA	102%		20-150%
	13C5-PFHxA	107%		20-150%
	13C4-PFHpA	110%		20-150%
	13C8-PFOA	103%		20-150%
	13C9-PFNA	103%		20-150%
	13C6-PFDA	81%		20-150%
	13C7-PFUnDA	67%		20-150%
	13C2-PFDoDA	55%		20-150%
	13C2-PFTeDA	49%		20-150%
	13C3-PFBS	98%		20-150%
	13C3-PFHxS	99%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-MW05-032123	Date Sampled:	03/21/23
Lab Sample ID:	JD62640-4A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	89%		20-150%
	13C8-FOSA	79%		20-150%
	d3-MeFOSA	51%		20-150%
	d5-EtFOSA	48%		20-150%
	d3-MeFOSAA	68%		20-150%
	d5-EtFOSAA	69%		20-150%
	d7-MeFOSE	56%		20-150%
	d9-EtFOSE	54%		20-150%
	13C2-4:2FTS	96%		20-150%
	13C2-6:2FTS	101%		20-150%
	13C2-8:2FTS	85%		20-150%
	13C3-HFPO-DA	95%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-MW03-032123		
Lab Sample ID:	JD62640-6A	Date Sampled:	03/21/23
Matrix:	AQ - Ground Water	Date Received:	03/23/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16081.D	1	04/05/23 07:44	AFL	03/31/23 09:58	F:OP96192	F:S6Q239
Run #2 ^a	6Q16118.D	5	04/05/23 16:59	AFL	03/31/23 09:58	F:OP96192	F:S6Q240
Run #3 ^a	6Q16119.D	10	04/05/23 17:13	AFL	03/31/23 09:58	F:OP96192	F:S6Q240

	Initial Volume	Final Volume
Run #1	520 ml	5.0 ml
Run #2	520 ml	5.0 ml
Run #3	520 ml	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.679	0.0077	0.0038	ug/l	
2706-90-3	Perfluoropentanoic acid	0.104	0.0038	0.00096	ug/l	
307-24-4	Perfluorohexanoic acid	0.114	0.0019	0.00048	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0782	0.0019	0.00048	ug/l	
335-67-1	Perfluorooctanoic acid	1.23 ^b	0.0096	0.0024	ug/l	
375-95-1	Perfluorononanoic acid	0.0097	0.0019	0.00059	ug/l	
335-76-2	Perfluorodecanoic acid	0.00083	0.0019	0.00048	ug/l	J
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00058	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00058	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00081	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00048	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0245	0.0019	0.00096	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0199	0.0019	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0467	0.0019	0.00096	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	0.0119	0.0019	0.00096	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.184	0.0019	0.00096	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.00096	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.00096	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.0011	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND ^c	0.077	0.038	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND ^c	0.077	0.038	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND ^b	0.038	0.020	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	0.0016	0.0019	0.00096	ug/l	J
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ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-MW03-032123	Date Sampled:	03/21/23
Lab Sample ID:	JD62640-6A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
31506-32-8	MeFOSA	ND	0.0019	0.00096	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00096	ug/l	

PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0139 ^b	0.0096	0.0048	ug/l	
2991-50-6	EtFOSAA	0.0518 ^b	0.0096	0.0064	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.019	0.0096	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0096	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0077	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0077	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0038	0.00096	ug/l	
863090-89-5	PFMBA	ND	0.0038	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0038	0.0012	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0077	0.0019	ug/l	
763051-92-9	11Cl-PF3OUds (F-53B Minor)	ND	0.0077	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0038	0.00096	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0096	0.0048	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.048	0.0096	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND ^b	0.24	0.048	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C4-PFBA	28%	25%	24%	20-150%
	13C5-PFPeA	58%	70%	84%	20-150%
	13C5-PFHxA	102%	92%	91%	20-150%
	13C4-PFHpA	124%	99%	105%	20-150%
	13C8-PFOA	97%	106%	93%	20-150%
	13C9-PFNA	97%	80%	69%	20-150%
	13C6-PFDA	108%	114%	109%	20-150%
	13C7-PFUnDA	104%	106%	76%	20-150%
	13C2-PFDoDA	83%	73%	79%	20-150%
	13C2-PFTeDA	52%	52%	49%	20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-MW03-032123	Date Sampled:	03/21/23
Lab Sample ID:	JD62640-6A	Date Received:	03/23/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C3-PFBS	96%	93%	91%	20-150%
	13C3-PFHxS	101%	92%	69%	20-150%
	13C8-PFOS	98%	99%	97%	20-150%
	13C8-FOSA	110%	89%	71%	20-150%
	d3-MeFOSA	63%	55%	58%	20-150%
	d5-EtFOSA	49%	52%	49%	20-150%
	d3-MeFOSAA	161% ^d	126%	79%	20-150%
	d5-EtFOSAA	174% ^d	118%	105%	20-150%
	d7-MeFOSE	59%	58%	50%	20-150%
	d9-EtFOSE	52%	50%	42%	20-150%
	13C2-4:2FTS	170% ^d	163% ^d	82%	20-150%
	13C2-6:2FTS	240% ^d	167% ^d	71%	20-150%
	13C2-8:2FTS	205% ^d	84%	90%	20-150%
	13C3-HFPO-DA	71%	74%	91%	20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Result is from Run# 2

(c) Result is from Run# 3

(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



GW
WFB
WTS

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/en/usa

Page 1 of 1

MM-431423-70
5819 7371 9116

SGS Quote #
Bottle Order Control #
SGS Job # JD62640

Client / Reporting Information		Project Information		Billing Information (if different from Report to)		Matrix Codes	
Company Name: Pamball	Project Name: 8 Lyndon Road Landfill	Street: 80 Lyndon Rd	City: Fairport NY	State: NY	Company Name:	Matrix Codes	
Street Address: 333 W Washington St	City: Syracuse NY	State: NY	Zip: 13202	Project #: 1940102910	Client Purchase Order #:	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Project Contact: Robert Trent	E-mail: Rtrent@pamball.com	Project #:	Client Purchase Order #:	City:	State:	Zip:	
Sampler(s) Name(s): Keith Lombardi	Phone #:	Project Manager: R Trent	Attention:	Number of Bottles			
Field ID / Point of Collection	MEQ/HD Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Source Characterization (S/N)	Matrix
1 TB-032123		3/21/23	0900	RB	G	N	TB
2 CB-032123		3/21/23	1030	RB	G	N	FB
3 DUP-032123		3/21/23		G	N	GW	IL
4 LR-MW05-032123		3/21/23	1120	RB	G	N	GW
5 LR-MW08-032123		3/21/23	1125	JL	G	N	GW
6 LR-MW03-032123		3/21/23	1100	JL	G	N	GW
Turn Around Time (Business Days)				Deliverable			
Approved by (SGS PM) / Date: Initial Assessment: 2B Label Verification:				Commercial "A" (Level 1) Commercial "B" (Level 2) NJ Reduced (Level 3) Full Tier I (Level 4) Commercial "C" NJ DKQP			
10 Business Days 5 Business Days 3 Business Days 2 Business Days 1 Business Day Other				NYASP Category A NYASP Category B MA MCP Criteria CT RCP Criteria State Forms EDD Format			
All data available via SGS Engage				Commercial "A" = Results only; Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data			
Sample Custody must be documented below each time samples change possession, including courier delivery.				Comments / Special Instructions			
Relinquished by: 1 RB-1130 3/23/23	Date / Time:	Received By: FELER	1	Relinquished By: FELER	2	Relinquished By:	3
Relinquished by:	Date / Time:	Received By:	3	Relinquished By:	4	Relinquished By:	5
Relinquished by:	Date / Time:	Received By:	5	Custody Seal #			
Therm ID: 40				On ice: IR-40 4.5 °C			

JD62640: Chain of Custody

Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD62640

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - GROUNDWA

Date / Time Received: 3/23/2023 10:00:00 AM

Delivery Method: FedEx

Airbill #'s: 5894 7371 9116

Cooler Temps (Raw Measured) °C: Cooler 1: (4.5); Cooler 2: (4.4);

Cooler Temps (Corrected) °C: Cooler 1: (4.3); Cooler 2: (4.2);

Cooler Security
Y or N
Y or N

- | | |
|--|--|
| 1. Custody Seals Present: ☒ ☐ | 3. COC Present: ☒ ☐ |
| 2. Custody Seals Intact: ☒ ☐ | 4. Smpl Dates/Time OK ☒ ☐ |

Cooler Temperature
Y or N

- | | |
|---|--|
| 1. Temp criteria achieved: ☒ ☐ | |
| 2. Cooler temp verification: R Gun | |
| 3. Cooler media: Ice (Bag) | |
| 4. No. Coolers: 2 | |

Quality Control Preservation
Y or N
N/A

- | | |
|---|--|
| 1. Trip Blank present / cooler: ☒ ☐ ☐ | |
| 2. Trip Blank listed on COC: ☒ ☐ ☐ | |
| 3. Samples preserved properly: ☒ ☐ ☐ | |
| 4. VOCs headspace free: ☒ ☐ ☐ | |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: ☒ ☐ | |
| 2. Container labeling complete: ☒ ☐ | |
| 3. Sample container label / COC agree: ☒ ☐ | |

Sample Integrity - Condition
Y or N

- | | |
|---|--|
| 1. Sample recvd within HT: ☒ ☐ | |
| 2. All containers accounted for: ☒ ☐ | |
| 3. Condition of sample: Intact | |

Sample Integrity - Instructions
Y or N N/A

- | | |
|--|--|
| 1. Analysis requested is clear: ☒ ☐ | |
| 2. Bottles received for unspecified tests: ☐ ☒ | |
| 3. Sufficient volume recvd for analysis: ☒ ☐ | |
| 4. Compositing instructions clear: ☐ ☐ ☒ | |
| 5. Filtering instructions clear: ☐ ☐ ☒ | |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify) _____
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Comments Sample -3 thru -5: 40mL HCL vials for VOA analysis not individually labeled with ID, collection date/time. ID, collection date/time written on label included in bag that set of vials were submitted in.

SM089-03
Rev. Date 12/7/17

JD62640: Chain of Custody

Page 2 of 3

Responded to by: CSR: N/A

Response Date: Response Date: 3/25/2023

Response:

Response: Proceed with analysis

JD62640: Chain of Custody
Page 3 of 3

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD62642

Sampling Date: 03/23/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 34



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in blue ink, appearing to read "D. Chastain".

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD62642

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD62642-1	03/23/23	17:20 RB	03/24/23	AQ	Trip Blank Water	LR-TB-032323
* JD62642-2	03/23/23	17:20 RB	03/24/23	AQ	Equipment Blank	LR-EB-032323
JD62642-3	03/23/23	10:00 RB	03/24/23	AQ	Surface Water	LR-SW1-032323
* JD62642-3A	03/23/23	10:00 RB	03/24/23	AQ	Surface Water	LR-SW1-032323
JD62642-4	03/23/23	11:15 RB	03/24/23	SO	Sediment	LR-SED1-032323
* JD62642-4A	03/23/23	11:15 RB	03/24/23	SO	Sediment	LR-SED1-032323
JD62642-5	03/23/23	13:00 RB	03/24/23	AQ	Surface Water	LR-SW2-032323
* JD62642-5A	03/23/23	13:00 RB	03/24/23	AQ	Surface Water	LR-SW2-032323
JD62642-6	03/23/23	13:15 RB	03/24/23	SO	Sediment	LR-SED2-032323
* JD62642-6A	03/23/23	13:15 RB	03/24/23	SO	Sediment	LR-SED2-032323
JD62642-7	03/23/23	14:30 RB	03/24/23	AQ	Surface Water	LR-SW3-032323
* JD62642-7A	03/23/23	14:30 RB	03/24/23	AQ	Surface Water	LR-SW3-032323

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD62642

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD62642-7D	03/23/23	14:30 RB	03/24/23	AQ	Water Dup/MSD	LR-SW3-032323
* JD62642-7DA	03/23/23	14:30 RB	03/24/23	AQ	Water Dup/MSD	LR-SW3-032323
JD62642-7S	03/23/23	14:30 RB	03/24/23	AQ	Water Matrix Spike	LR-SW3-032323
* JD62642-7SA	03/23/23	14:30 RB	03/24/23	AQ	Water Matrix Spike	LR-SW3-032323
JD62642-8	03/23/23	16:50 RB	03/24/23	AQ	Surface Water	LR-SW4-032323
* JD62642-8A	03/23/23	16:50 RB	03/24/23	AQ	Surface Water	LR-SW4-032323
JD62642-9	03/23/23	17:10 RB	03/24/23	SO	Sediment	LR-SED4-032323
* JD62642-9A	03/23/23	17:10 RB	03/24/23	SO	Sediment	LR-SED4-032323
JD62642-10	03/23/23	15:45 RB	03/24/23	SO	Sediment	LR-SED3-032323
* JD62642-10A	03/23/23	15:45 RB	03/24/23	SO	Sediment	LR-SED3-032323
JD62642-10D	03/23/23	15:45 RB	03/24/23	SO	Soil Dup/MSD	LR-SED3-032323
* JD62642-10DA	03/23/23	15:45 RB	03/24/23	SO	Soil Dup/MSD	LR-SED3-032323
JD62642-10S	03/23/23	15:45 RB	03/24/23	SO	Soil Matrix Spike	LR-SED3-032323

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD62642

Lyndon Road Landfill

Project No: 1940102910

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
* JD62642-10SA	03/23/23	15:45 RB	03/24/23	SO	Soil Matrix Spike	LR-SED3-032323

* The following report applies to these samples only (14 day TAT).

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-EB-032323		
Lab Sample ID:	JD62642-2	Date Sampled:	03/23/23
Matrix:	AQ - Equipment Blank	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16126.D	1	04/05/23 18:51	AFL	03/31/23 12:30	F:OP96193	F:S6Q240
Run #2							

	Initial Volume	Final Volume
Run #1	540 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0074	0.0037	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0037	0.00093	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0019	0.00046	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0019	0.00046	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0019	0.00046	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00056	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00046	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00056	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00056	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00078	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00046	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0019	0.00093	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0019	0.00093	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00093	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0019	0.00093	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.00093	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.00093	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.0011	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0074	0.0037	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0074	0.0037	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0074	0.0038	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0019	0.00093	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00093	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00093	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-EB-032323		
Lab Sample ID:	JD62642-2	Date Sampled:	03/23/23
Matrix:	AQ - Equipment Blank	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0019	0.00093	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.019	0.0093	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0093	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0074	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0074	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0037	0.00093	ug/l	
863090-89-5	PFMBA	ND	0.0037	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0037	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0074	0.0019	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0074	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0037	0.00093	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0093	0.0046	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.046	0.0093	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.046	0.0093	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	92%		20-150%
	13C5-PFPeA	91%		20-150%
	13C5-PFHxA	92%		20-150%
	13C4-PFHpA	90%		20-150%
	13C8-PFOA	93%		20-150%
	13C9-PFNA	85%		20-150%
	13C6-PFDA	84%		20-150%
	13C7-PFUnDA	76%		20-150%
	13C2-PFDoDA	66%		20-150%
	13C2-PFTeDA	54%		20-150%
	13C3-PFBS	85%		20-150%
	13C3-PFHxS	77%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-EB-032323	Date Sampled:	03/23/23
Lab Sample ID:	JD62642-2	Date Received:	03/24/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	86%		20-150%
	13C8-FOSA	70%		20-150%
	d3-MeFOSA	70%		20-150%
	d5-EtFOSA	67%		20-150%
	d3-MeFOSAA	89%		20-150%
	d5-EtFOSAA	81%		20-150%
	d7-MeFOSE	70%		20-150%
	d9-EtFOSE	72%		20-150%
	13C2-4:2FTS	105%		20-150%
	13C2-6:2FTS	107%		20-150%
	13C2-8:2FTS	96%		20-150%
	13C3-HFPO-DA	84%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID: LR-SW1-032323

Lab Sample ID: JD62642-3A

Date Sampled: 03/23/23

Matrix: AQ - Surface Water

Date Received: 03/24/23

Method: EPA DRAFT 1633 EPA 1633 DRAFT

Percent Solids: n/a

Project: Lyndon Road Landfill

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch



















































































































[illegible]

Response	Percentage
Yes, the U.S. should take action to address climate change	85%
No, the U.S. should not take action to address climate change	15%

THE FUTURE

Response	Percentage
Yes, the U.S. should take action to address climate change	85%
No, the U.S. should not take action to address climate change	15%

Age Group	Percentage
18-24	35%
25-34	25%
35-44	20%
45-54	10%
55-64	5%
65-74	2%
75+	1%

Report of Analysis

Client Sample ID:	LR-SW1-032323	Date Sampled:	03/23/23
Lab Sample ID:	JD62642-3A	Date Received:	03/24/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Report of Analysis

Page 3 of 3

Client Sample ID: LR-SW1-032323

Lab Sample ID: JD62642-3A

Matrix: AQ - Surface Water

Method: EPA DRAFT 1633 EPA 1633 DRAFT

Project: Lyndon Road Landfill

Date Sampled: 03/23/23

Date Received: 03/24/23

Percent Solids: n/a

■ = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SED1-032323	
Lab Sample ID:	JD62642-4A	Date Sampled: 03/23/23
Matrix:	SO - Sediment	Date Received: 03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: 41.9
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch

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Report of Analysis

Client Sample ID:	LR-SED1-032323	Date Sampled:	03/23/23
Lab Sample ID:	JD62642-4A	Date Received:	03/24/23
Matrix:	SO - Sediment	Percent Solids:	41.9
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		



ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SW2-032323	Date Sampled:	03/23/23
Lab Sample ID:	JD62642-5A	Date Received:	03/24/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch

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Report of Analysis

Client Sample ID:	LR-SW2-032323	Date Sampled:	03/23/23
Lab Sample ID:	JD62642-5A	Date Received:	03/24/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Report of Analysis

Page 3 of 3

Client Sample ID: LR-SW2-032323

Lab Sample ID: JD62642-5A

Matrix: AQ - Surface Water

Method: EPA DRAFT 1633 EPA 1633 DRAFT

Project: Lyndon Road Landfill

Date Sampled: 03/23/23

Date Received: 03/24/23

Percent Solids: n/a

■ = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID: LR-SED2-032323

Lab Sample ID: JD62642-6A

Matrix: SO - Sediment

Method:	EPA DRAFT 1633	EPA 1633 DRAFT
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Date Sampled: 03/23/23

Date Received: 03/24/23

Percent Solids: 35.2

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Age Group	Percentage
18-24	85
25-34	75
35-44	65
45-54	55
55-64	45
65-74	35
75-84	25
85+	10

11/11/2016

114



11/11/2016

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Abstract



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Report of Analysis

Client Sample ID:	LR-SED2-032323	Date Sampled:	03/23/23
Lab Sample ID:	JD62642-6A	Date Received:	03/24/23
Matrix:	SO - Sediment	Percent Solids:	35.2
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Report of Analysis

Client Sample ID:	LR-SED2-032323	Date Sampled:	03/23/23
Lab Sample ID:	JD62642-6A	Date Received:	03/24/23
Matrix:	SO - Sediment	Percent Solids:	35.2
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		



Report of Analysis

Page 1 of 3

Client Sample ID:	LR-SW3-032323	
Lab Sample ID:	JD62642-7A	Date Sampled: 03/23/23
Matrix:	AQ - Surface Water	Date Received: 03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16129.D	1	04/05/23 19:33	AFL	03/31/23 12:30	F:OP96193	F:S6Q240
Run #2							

	Initial Volume	Final Volume
Run #1	460 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0052	0.0087	0.0043	ug/l	J
2706-90-3	Perfluoropentanoic acid	0.0016	0.0043	0.0011	ug/l	J
307-24-4	Perfluorohexanoic acid	0.0020	0.0022	0.00054	ug/l	J
375-85-9	Perfluoroheptanoic acid	0.00081	0.0022	0.00054	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0056	0.0022	0.00054	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0022	0.00066	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0022	0.00054	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0022	0.00065	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0022	0.00065	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0022	0.00091	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0022	0.00054	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0016	0.0022	0.0011	ug/l	J
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0022	0.0012	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0022	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0022	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0016	0.0022	0.0011	ug/l	J
68259-12-1	Perfluorononanesulfonic acid	ND	0.0022	0.0011	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0022	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0022	0.0012	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0087	0.0043	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0087	0.0043	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0087	0.0045	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0022	0.0011	ug/l	
31506-32-8	MeFOSA	ND	0.0022	0.0011	ug/l	
4151-50-2	EtFOSA	ND	0.0022	0.0011	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-SW3-032323		
Lab Sample ID:	JD62642-7A	Date Sampled:	03/23/23
Matrix:	AQ - Surface Water	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0022	0.0011	ug/l	
2991-50-6	EtFOSAA	ND	0.0022	0.0014	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.022	0.011	ug/l	
1691-99-2	EtFOSE	ND	0.022	0.011	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0087	0.0022	ug/l	
919005-14-4	ADONA	ND	0.0087	0.0022	ug/l	
377-73-1	PFMPA	ND	0.0043	0.0011	ug/l	
863090-89-5	PFMBA	ND	0.0043	0.0012	ug/l	
151772-58-6	NFDHA	ND	0.0043	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0087	0.0022	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0087	0.0022	ug/l	
113507-82-7	PFEESA	ND	0.0043	0.0011	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	0.0054	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.054	0.011	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.054	0.011	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	79%		20-150%
	13C5-PFPeA	100%		20-150%
	13C5-PFHxA	104%		20-150%
	13C4-PFHpA	100%		20-150%
	13C8-PFOA	97%		20-150%
	13C9-PFNA	100%		20-150%
	13C6-PFDA	101%		20-150%
	13C7-PFUnDA	93%		20-150%
	13C2-PFDoDA	77%		20-150%
	13C2-PFTeDA	49%		20-150%
	13C3-PFBS	88%		20-150%
	13C3-PFHxS	94%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-SW3-032323		
Lab Sample ID:	JD62642-7A	Date Sampled:	03/23/23
Matrix:	AQ - Surface Water	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	92%		20-150%
	13C8-FOSA	88%		20-150%
	d3-MeFOSA	80%		20-150%
	d5-EtFOSA	73%		20-150%
	d3-MeFOSAA	98%		20-150%
	d5-EtFOSAA	91%		20-150%
	d7-MeFOSE	69%		20-150%
	d9-EtFOSE	66%		20-150%
	13C2-4:2FTS	101%		20-150%
	13C2-6:2FTS	90%		20-150%
	13C2-8:2FTS	82%		20-150%
	13C3-HFPO-DA	88%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-SW4-032323		
Lab Sample ID:	JD62642-8A	Date Sampled:	03/23/23
Matrix:	AQ - Surface Water	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16132.D	1	04/05/23 20:15	AFL	03/31/23 12:30	F:OP96193	F:S6Q240
Run #2							

	Initial Volume	Final Volume
Run #1	540 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0059	0.0074	0.0037	ug/l	J
2706-90-3	Perfluoropentanoic acid	0.0017	0.0037	0.00093	ug/l	J
307-24-4	Perfluorohexanoic acid	0.0021	0.0019	0.00046	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0010	0.0019	0.00046	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0068	0.0019	0.00046	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00056	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00046	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00056	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00056	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00078	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00046	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0017	0.0019	0.00093	ug/l	J
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0019	0.00093	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00093	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0017	0.0019	0.00093	ug/l	J
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.00093	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.00093	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.0011	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0074	0.0037	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0074	0.0037	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0074	0.0038	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0019	0.00093	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00093	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00093	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-SW4-032323		
Lab Sample ID:	JD62642-8A	Date Sampled:	03/23/23
Matrix:	AQ - Surface Water	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0019	0.00093	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.019	0.0093	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0093	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0074	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0074	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0037	0.00093	ug/l	
863090-89-5	PFMBA	ND	0.0037	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0037	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0074	0.0019	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0074	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0037	0.00093	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0093	0.0046	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.046	0.0093	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.046	0.0093	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	54%		20-150%
	13C5-PFPeA	100%		20-150%
	13C5-PFHxA	101%		20-150%
	13C4-PFHpA	101%		20-150%
	13C8-PFOA	98%		20-150%
	13C9-PFNA	99%		20-150%
	13C6-PFDA	100%		20-150%
	13C7-PFUnDA	89%		20-150%
	13C2-PFDoDA	74%		20-150%
	13C2-PFTeDA	52%		20-150%
	13C3-PFBS	92%		20-150%
	13C3-PFHxS	93%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-SW4-032323		
Lab Sample ID:	JD62642-8A	Date Sampled:	03/23/23
Matrix:	AQ - Surface Water	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	92%		20-150%
	13C8-FOSA	92%		20-150%
	d3-MeFOSA	78%		20-150%
	d5-EtFOSA	70%		20-150%
	d3-MeFOSAA	96%		20-150%
	d5-EtFOSAA	85%		20-150%
	d7-MeFOSE	64%		20-150%
	d9-EtFOSE	64%		20-150%
	13C2-4:2FTS	96%		20-150%
	13C2-6:2FTS	90%		20-150%
	13C2-8:2FTS	77%		20-150%
	13C3-HFPO-DA	96%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-SED4-032323		
Lab Sample ID:	JD62642-9A	Date Sampled:	03/23/23
Matrix:	SO - Sediment	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	39.0
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16179.D	1	04/06/23 07:16	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0020	0.0013	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.0010	0.00026	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00051	0.00026	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00051	0.00026	mg/kg	
335-67-1	Perfluorooctanoic acid	0.0072	0.00051	0.00026	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00051	0.00029	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00051	0.00026	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00051	0.00034	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00051	0.00026	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00051	0.00026	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00051	0.00026	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00051	0.00026	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00051	0.00040	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00051	0.00041	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00051	0.00037	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0145	0.00051	0.00026	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00051	0.00046	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00051	0.00037	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00051	0.00038	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0020	0.0010	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0020	0.0010	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0020	0.0015	mg/kg	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	0.00069	0.00051	0.00026	mg/kg	
31506-32-8	MeFOSA	ND	0.00051	0.00035	mg/kg	
4151-50-2	EtFOSA	ND	0.00051	0.00026	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-SED4-032323		
Lab Sample ID:	JD62642-9A	Date Sampled:	03/23/23
Matrix:	SO - Sediment	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	39.0
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00051	0.00040	mg/kg	
2991-50-6	EtFOSAA	0.0020	0.00051	0.00050	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0051	0.0026	mg/kg	
1691-99-2	EtFOSE	ND	0.0051	0.0026	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0020	0.00074	mg/kg	
919005-14-4	ADONA	ND	0.0020	0.00086	mg/kg	
377-73-1	PFMPA	ND	0.0010	0.00051	mg/kg	
863090-89-5	PFMBA	ND	0.0010	0.00051	mg/kg	
151772-58-6	NFDHA	ND	0.0010	0.00062	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0020	0.0011	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0020	0.0010	mg/kg	
113507-82-7	PFEESA	ND	0.0010	0.00051	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0026	0.0013	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.013	0.0029	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.013	0.0032	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	71%		20-150%
	13C5-PFPeA	69%		20-150%
	13C5-PFHxA	70%		20-150%
	13C4-PFHpA	71%		20-150%
	13C8-PFOA	67%		20-150%
	13C9-PFNA	76%		20-150%
	13C6-PFDA	84%		20-150%
	13C7-PFUnDA	77%		20-150%
	13C2-PFDoDA	69%		20-150%
	13C2-PFTeDA	63%		20-150%
	13C3-PFBS	67%		20-150%
	13C3-PFHxS	67%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-SED4-032323		
Lab Sample ID:	JD62642-9A	Date Sampled:	03/23/23
Matrix:	SO - Sediment	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	39.0
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	67%		20-150%
	13C8-FOSA	71%		20-150%
	d3-MeFOSA	58%		20-150%
	d5-EtFOSA	54%		20-150%
	d3-MeFOSAA	75%		20-150%
	d5-EtFOSAA	76%		20-150%
	d7-MeFOSE	47%		20-150%
	d9-EtFOSE	46%		20-150%
	13C2-4:2FTS	77%		20-150%
	13C2-6:2FTS	77%		20-150%
	13C2-8:2FTS	71%		20-150%
	13C3-HFPO-DA	68%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-SED3-032323		
Lab Sample ID:	JD62642-10A	Date Sampled:	03/23/23
Matrix:	SO - Sediment	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	48.1
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q16180.D	1	04/06/23 07:30	AFL	03/31/23 10:20	F:OP96187	F:S6Q240
Run #2							

	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0017	0.0010	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.00083	0.00021	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00041	0.00021	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00041	0.00021	mg/kg	
335-67-1	Perfluorooctanoic acid	0.00045	0.00041	0.00021	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00041	0.00024	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00041	0.00021	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00041	0.00028	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00041	0.00021	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00041	0.00021	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00041	0.00021	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00041	0.00021	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00041	0.00033	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00041	0.00033	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00041	0.00030	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.00053	0.00041	0.00021	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00041	0.00037	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00041	0.00030	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00041	0.00031	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0017	0.00083	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0017	0.00083	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0017	0.0012	mg/kg	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00041	0.00021	mg/kg	
31506-32-8	MeFOSA	ND	0.00041	0.00028	mg/kg	
4151-50-2	EtFOSA	ND	0.00041	0.00021	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SED3-032323		
Lab Sample ID:	JD62642-10A	Date Sampled:	03/23/23
Matrix:	SO - Sediment	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	48.1
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00041	0.00033	mg/kg	
2991-50-6	EtFOSAA	ND	0.00041	0.00041	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0041	0.0021	mg/kg	
1691-99-2	EtFOSE	ND	0.0041	0.0021	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0017	0.00060	mg/kg	
919005-14-4	ADONA	ND	0.0017	0.00070	mg/kg	
377-73-1	PFMPA	ND	0.00083	0.00041	mg/kg	
863090-89-5	PFMBA	ND	0.00083	0.00041	mg/kg	
151772-58-6	NFDHA	ND	0.00083	0.00051	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0017	0.00091	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0017	0.00083	mg/kg	
113507-82-7	PFEEESA	ND	0.00083	0.00041	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0021	0.0011	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.010	0.0024	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylat ^b	ND	0.010	0.0026	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	80%		20-150%
	13C5-PFPeA	77%		20-150%
	13C5-PFHxA	76%		20-150%
	13C4-PFHpA	76%		20-150%
	13C8-PFOA	80%		20-150%
	13C9-PFNA	77%		20-150%
	13C6-PFDA	75%		20-150%
	13C7-PFUnDA	77%		20-150%
	13C2-PFDoDA	71%		20-150%
	13C2-PFTeDA	65%		20-150%
	13C3-PFBS	73%		20-150%
	13C3-PFHxS	75%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-SED3-032323		
Lab Sample ID:	JD62642-10A	Date Sampled:	03/23/23
Matrix:	SO - Sediment	Date Received:	03/24/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	48.1
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	70%		20-150%
	13C8-FOSA	70%		20-150%
	d3-MeFOSA	60%		20-150%
	d5-EtFOSA	54%		20-150%
	d3-MeFOSAA	79%		20-150%
	d5-EtFOSAA	78%		20-150%
	d7-MeFOSE	52%		20-150%
	d9-EtFOSE	49%		20-150%
	13C2-4:2FTS	85%		20-150%
	13C2-6:2FTS	92%		20-150%
	13C2-8:2FTS	67%		20-150%
	13C3-HFPO-DA	71%		20-150%

(a) Analysis performed at SGS Orlando, FL.

(b) Associated Low Level CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SW
SFD
WTO
WEB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

MM-031523-85
5899 172 006

Page 1 of 2

[illegible]

EHSA-QAC-0023-05 Rev. Date: 8/5/22

JD62642: Chain of Custody

Page 1 of 3

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 2 of 2

[illegible]

SGS Sample Receipt Summary

Job Number: JD62642

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - TEST TRENCH

Date / Time Received: 3/24/2023 10:00:00 AM

Delivery Method:
Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (4.7); Cooler 2: (3.3); Cooler 3: (3.3); Cooler 4: (4.2);

Cooler Temps (Corrected) °C: Cooler 1: (4.5); Cooler 2: (3.1); Cooler 3: (3.1); Cooler 4: (4.0);

Cooler Security
Y or N

1. Custody Seals Present:

☒ ☐

3. COC Present:

☒ ☐

2. Custody Seals Intact:

☒ ☐

4. Smpl Dates/Time OK

☒ ☐
Cooler Temperature
Y or N

1. Temp criteria achieved:

☒ ☐

2. Cooler temp verification:

R Gun

3. Cooler media:

Ice (Bag)

4. No. Coolers:

4

Quality Control Preservation
Y or N
N/A

1. Trip Blank present / cooler:

☒ ☐ ☐

2. Trip Blank listed on COC:

☒ ☐ ☐

3. Samples preserved properly:

☒ ☐ ☐

4. VOCs headspace free:

☒ ☐ ☐
Sample Integrity - Documentation
Y or N

1. Sample labels present on bottles:

☒ ☐

2. Container labeling complete:

☒ ☐

3. Sample container label / COC agree:

☒ ☐
Sample Integrity - Condition
Y or N

1. Sample recvd within HT:

☒ ☐

2. All containers accounted for:

☒ ☐

3. Condition of sample:

Intact

Sample Integrity - Instructions
Y or N N/A

1. Analysis requested is clear:

☒ ☐

2. Bottles received for unspecified tests

☐ ☒

3. Sufficient volume recvd for analysis:

☒ ☐

4. Compositing instructions clear:

☐ ☐ ☒

5. Filtering instructions clear:

☐ ☐ ☒

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments

SM089-03

Rev. Date 12/7/17

JD62642: Chain of Custody

Page 3 of 3

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD62646

Sampling Date: 03/24/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 102



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD62646

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

* JD62646-1	03/24/23	16:20 RB	03/25/23	AQ	Trip Blank Water	LR-TB-032423
JD62646-2	03/24/23	11:00 RB	03/25/23	AQ	Equipment Blank	LR-EB-032423
* JD62646-3	03/24/23	09:20 RB	03/25/23	AQ	Surface Water	LR-SW5-032423
JD62646-3A	03/24/23	09:20 RB	03/25/23	AQ	Surface Water	LR-SW5-032423
* JD62646-4	03/24/23	09:40 RB	03/25/23	SO	Sediment	LR-SED5-032423
JD62646-4A	03/24/23	09:40 RB	03/25/23	SO	Sediment	LR-SED5-032423
* JD62646-5	03/24/23	12:45 RB	03/25/23	AQ	Surface Water	LR-SW6-032423
JD62646-5A	03/24/23	12:45 RB	03/25/23	AQ	Surface Water	LR-SW6-032423
* JD62646-6	03/24/23	12:30 RB	03/25/23	SO	Sediment	LR-SED6-032423
JD62646-6A	03/24/23	12:30 RB	03/25/23	SO	Sediment	LR-SED6-032423
* JD62646-7	03/24/23	13:40 RB	03/25/23	AQ	Surface Water	LR-SW-INT-032423
JD62646-7A	03/24/23	13:40 RB	03/25/23	AQ	Surface Water	LR-SW-INT-032423

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD62646

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
* JD62646-8	03/24/23	00:00 RB	03/25/23	AQ	Surface Water	LR-DUP-032423
JD62646-8A	03/24/23	00:00 RB	03/25/23	AQ	Surface Water	LR-DUP-032423
* JD62646-9	03/24/23	00:00 RB	03/25/23	SO	Sediment	LR-DUP-032423
JD62646-9A	03/24/23	00:00 RB	03/25/23	SO	Sediment	LR-DUP-032423
* JD62646-10	03/24/23	14:20 RB	03/25/23	AQ	Surface Water	LR-SW7-032423
JD62646-10A	03/24/23	14:20 RB	03/25/23	AQ	Surface Water	LR-SW7-032423
* JD62646-11	03/24/23	15:10 RB	03/25/23	AQ	Surface Water	LR-SW8-032423
JD62646-11A	03/24/23	15:10 RB	03/25/23	AQ	Surface Water	LR-SW8-032423
* JD62646-12	03/24/23	15:20 RB	03/25/23	SO	Sediment	LR-SED8-032423
JD62646-12A	03/24/23	15:20 RB	03/25/23	SO	Sediment	LR-SED8-032423
* JD62646-13	03/24/23	16:10 RB	03/25/23	AQ	Surface Water	LR-SW9-032423
JD62646-13A	03/24/23	16:10 RB	03/25/23	AQ	Surface Water	LR-SW9-032423
* JD62646-14	03/24/23	16:00 RB	03/25/23	SO	Sediment	LR-SED9-032423

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

(continued)

Ramboll Americas

Job No: JD62646

Lyndon Road Landfill

Project No: 1940102910

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JD62646-14A	03/24/23	16:00	RB	03/25/23	SO	Sediment	LR-SED9-032423
* JD62646-15	03/24/23	10:50	RB	03/25/23	AQ	Ground Water	LR DRUMWC_032423

* The following report applies to these samples only (7 day TAT).

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 2

Client Sample ID:	LR-TB-032423	
Lab Sample ID:	JD62646-1	Date Sampled: 03/24/23
Matrix:	AQ - Trip Blank Water	Date Received: 03/25/23
Method:	SW846 8260D	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D126550.D	1	04/03/23 15:31	BK	n/a	n/a	V4D5616
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^b	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^b	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-TB-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-1	Date Received:	03/25/23
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	94%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	4.39	9.4	ug/l	J
	Total TIC, Volatile		0	ug/l	

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	LR-SW5-032423	
Lab Sample ID:	JD62646-3	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8260D	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D126557.D	1	04/03/23 18:50	BK	n/a	n/a	V4D5616
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^b	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^b	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SW5-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-3	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	94%		80-120%
460-00-4	4-Bromofluorobenzene	93%		82-114%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	4.43	67	ug/l	J
	Total TIC, Volatile		0	ug/l	

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-SW5-032423	
Lab Sample ID:	JD62646-3	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8270E SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E121547.D	1	04/01/23 02:41	JY	03/31/23 08:30	OP45524	E3E5610
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SW5-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-3	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	3.1	2.0	0.50	ug/l	B
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		10-71%

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SW5-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-3	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-62-2	Phenol-d5	20%		10-58%		
118-79-6	2,4,6-Tribromophenol	75%		22-144%		
4165-60-0	Nitrobenzene-d5	70%		28-118%		
321-60-8	2-Fluorobiphenyl	65%		34-116%		
1718-51-0	Terphenyl-d14	64%		10-127%		

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard added for SIM test	5.83	4.6	ug/l	J
	Internal standard added for SIM test	7.69	4.5	ug/l	J
	Internal standard added for SIM test	10.91	4.8	ug/l	J
	Unknown	14.54	9.3	ug/l	J
	Internal standard added for SIM test	15.19	4.3	ug/l	J
	Total TIC, Semi-Volatile		9.3	ug/l	J

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW5-032423	
Lab Sample ID:	JD62646-3	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8270E BY SIM SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M115253.D	1	04/03/23 14:57	JY	03/31/23 08:30	OP45524A	E4M5375
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		23-127%
321-60-8	2-Fluorobiphenyl	65%		23-114%
1718-51-0	Terphenyl-d14	57%		10-121%

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW5-032423	
Lab Sample ID:	JD62646-3	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8151A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4373.D	1	03/31/23 03:50	RK	03/28/23 12:00	OP45495	G9G232
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.40	0.19	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	0.080	0.050	ug/l	
93-76-5	2,4,5-T	ND	0.080	0.043	ug/l	
75-99-0	Dalapon	ND	0.080	0.060	ug/l	
1918-00-9	Dicamba	ND	0.080	0.025	ug/l	
120-36-5	Dichloroprop	ND	0.40	0.16	ug/l	
88-85-7	Dinoseb	ND	0.40	0.16	ug/l	
94-74-6	MCPA ^a	ND	40	27	ug/l	
93-65-2	MCP P ^a	ND	40	26	ug/l	
87-86-5	Pentachlorophenol	ND	0.080	0.041	ug/l	
94-82-6	2,4-DB	ND	0.40	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	30%		10-150%
19719-28-9	2,4-DCAA	41%		10-150%

(a) Associated CCV outside of control limits high, sample was ND.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW5-032423	
Lab Sample ID:	JD62646-3	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8081B SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G183854.D	1	03/29/23 02:34	RK	03/28/23 06:50	OP45491	G1G6439
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0080	0.0041	ug/l	
319-84-6	alpha-BHC	ND	0.0080	0.0042	ug/l	
319-85-7	beta-BHC	ND	0.0080	0.0064	ug/l	
319-86-8	delta-BHC	ND	0.0080	0.0053	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	0.0048	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0080	0.0039	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0080	0.0034	ug/l	
60-57-1	Dieldrin	ND	0.0080	0.0061	ug/l	
72-54-8	4,4' -DDD	ND	0.0080	0.0046	ug/l	
72-55-9	4,4' -DDE	ND	0.0080	0.0040	ug/l	
50-29-3	4,4' -DDT	ND	0.0080	0.0055	ug/l	
72-20-8	Endrin	ND	0.0080	0.0048	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	0.0044	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	0.0054	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	0.0050	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	0.0039	ug/l	
76-44-8	Heptachlor	ND	0.0080	0.0036	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	0.0048	ug/l	
72-43-5	Methoxychlor	ND	0.016	0.0054	ug/l	
8001-35-2	Toxaphene	ND	0.20	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		10-175%
877-09-8	Tetrachloro-m-xylene	80%		10-175%
2051-24-3	Decachlorobiphenyl	69%		10-128%
2051-24-3	Decachlorobiphenyl	96%		10-128%

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW5-032423	
Lab Sample ID:	JD62646-3	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8082A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2499309.D	1	03/29/23 04:04	RK	03/28/23 06:50	OP45492	GXX8132
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.16	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	0.34	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.21	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	0.18	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	0.10	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	0.33	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	0.12	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		10-169%
877-09-8	Tetrachloro-m-xylene	70%		10-169%
2051-24-3	Decachlorobiphenyl	58%		10-130%
2051-24-3	Decachlorobiphenyl	52%		10-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: LR-SW5-032423

Lab Sample ID: JD62646-3

Matrix: AQ - Surface Water

Project: Lyndon Road Landfill

Date Sampled: 03/24/23

Date Received: 03/25/23

Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Barium	< 200	200	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Calcium	75200	5000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Chromium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Cobalt	< 50	50	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Copper	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Iron	251	100	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Magnesium	24500	5000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Manganese	39.0	15	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	03/31/23	03/31/23	LM	SW846 7470A ¹ SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Selenium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Silver	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Sodium	59700	10000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Thallium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Vanadium	< 50	50	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³
Zinc	< 20	20	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ³

(1) Instrument QC Batch: MA53937

(2) Instrument QC Batch: MA53941

(3) Prep QC Batch: MP38727

(4) Prep QC Batch: MP38772

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW5-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-3	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	03/29/23 12:46	MM	EPA 335.4/LACHAT

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-SED5-032423	
Lab Sample ID:	JD62646-4	Date Sampled: 03/24/23
Matrix:	SO - Sediment	Date Received: 03/25/23
Method:	SW846 8260D	Percent Solids: 74.9
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C182476.D	1	04/04/23 13:25	PS	n/a	n/a	V3C7986
Run #2							

	Initial Weight
Run #1	6.7 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	0.0196	0.010	0.0041	mg/kg	
71-43-2	Benzene	ND	0.00050	0.00045	mg/kg	
74-97-5	Bromochloromethane	ND	0.0050	0.00056	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0020	0.00043	mg/kg	
75-25-2	Bromoform	ND	0.0050	0.0014	mg/kg	
74-83-9	Bromomethane ^b	ND	0.0050	0.00076	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.010	0.0024	mg/kg	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00062	mg/kg	
108-90-7	Chlorobenzene	ND	0.0020	0.00046	mg/kg	
75-00-3	Chloroethane	ND	0.0050	0.00059	mg/kg	
67-66-3	Chloroform	ND	0.0020	0.00052	mg/kg	
74-87-3	Chloromethane	ND	0.0050	0.0020	mg/kg	
110-82-7	Cyclohexane	ND	0.0020	0.00065	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00069	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0020	0.00056	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00042	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0010	0.00054	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0010	0.00049	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0010	0.00049	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0050	0.00072	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00049	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00047	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00065	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0010	0.00084	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00061	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00047	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00047	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00046	mg/kg	
100-41-4	Ethylbenzene	ND	0.0010	0.00045	mg/kg	
76-13-1	Freon 113	ND	0.0050	0.0027	mg/kg	
591-78-6	2-Hexanone	ND	0.0050	0.0021	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SED5-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-4	Date Received:	03/25/23
Matrix:	SO - Sediment	Percent Solids:	74.9
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.0020	0.0014	mg/kg	
79-20-9	Methyl Acetate	0.0034	0.0050	0.0014	mg/kg	J
108-87-2	Methylcyclohexane	ND	0.0020	0.00087	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00047	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0050	0.0023	mg/kg	
75-09-2	Methylene chloride	ND	0.0050	0.0026	mg/kg	
100-42-5	Styrene	ND	0.0020	0.00040	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.00060	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0020	0.00058	mg/kg	
108-88-3	Toluene	ND	0.0010	0.00052	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0050	0.0025	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0050	0.0025	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00048	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00055	mg/kg	
79-01-6	Trichloroethene	ND	0.0010	0.00076	mg/kg	
75-69-4	Trichlorofluoromethane ^b	ND	0.0050	0.00068	mg/kg	
75-01-4	Vinyl chloride	ND	0.0020	0.00048	mg/kg	
	m,p-Xylene	ND	0.0010	0.00089	mg/kg	
95-47-6	o-Xylene	ND	0.0010	0.00046	mg/kg	
1330-20-7	Xylene (total)	ND	0.0010	0.00046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-124%
17060-07-0	1,2-Dichloroethane-D4	100%		75-133%
2037-26-5	Toluene-D8	98%		79-125%
460-00-4	4-Bromofluorobenzene	97%		58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	mg/kg	

(a) Associated CCV outside of control limits high.

(b) Associated CCV outside of control limits low. No sensitivity check provided.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-SED5-032423	
Lab Sample ID:	JD62646-4	Date Sampled: 03/24/23
Matrix:	SO - Sediment	Date Received: 03/25/23
Method:	SW846 8270E SW846 3546	Percent Solids: 74.9
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z163249.D	1	03/30/23 16:21	GA	03/29/23 14:30	OP45501	EZ8086
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.086	0.021	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.22	0.026	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.22	0.037	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.22	0.077	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.22	0.16	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.22	0.046	mg/kg	
95-48-7	2-Methylphenol	ND	0.086	0.028	mg/kg	
	3&4-Methylphenol	ND	0.086	0.036	mg/kg	
88-75-5	2-Nitrophenol	ND	0.22	0.029	mg/kg	
100-02-7	4-Nitrophenol	ND	0.43	0.12	mg/kg	
87-86-5	Pentachlorophenol	ND	0.17	0.041	mg/kg	
108-95-2	Phenol	ND	0.086	0.023	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.22	0.029	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.22	0.032	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.22	0.026	mg/kg	
83-32-9	Acenaphthene	ND	0.043	0.015	mg/kg	
208-96-8	Acenaphthylene	ND	0.043	0.022	mg/kg	
98-86-2	Acetophenone	ND	0.22	0.0093	mg/kg	
120-12-7	Anthracene	ND	0.043	0.026	mg/kg	
1912-24-9	Atrazine	ND	0.086	0.018	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.043	0.012	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.043	0.020	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.043	0.019	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.043	0.022	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.043	0.020	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.086	0.017	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.086	0.011	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.086	0.0059	mg/kg	
100-52-7	Benzaldehyde	ND	0.22	0.011	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.086	0.010	mg/kg	
106-47-8	4-Chloroaniline	ND	0.22	0.016	mg/kg	
86-74-8	Carbazole	ND	0.086	0.0063	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SED5-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-4	Date Received:	03/25/23
Matrix:	SO - Sediment	Percent Solids:	74.9
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.086	0.017	mg/kg	
218-01-9	Chrysene	ND	0.043	0.014	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.086	0.0092	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.086	0.019	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.086	0.016	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.086	0.014	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.043	0.013	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.043	0.022	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.086	0.036	mg/kg	
123-91-1	1,4-Dioxane	ND	0.043	0.029	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.043	0.019	mg/kg	
132-64-9	Dibenzofuran	ND	0.086	0.018	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.086	0.0070	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.086	0.011	mg/kg	
84-66-2	Diethyl phthalate	ND	0.086	0.0092	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.086	0.0077	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.086	0.010	mg/kg	
206-44-0	Fluoranthene	ND	0.043	0.019	mg/kg	
86-73-7	Fluorene	ND	0.043	0.020	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.086	0.011	mg/kg	
87-68-3	Hexachlorobutadiene ^a	ND	0.043	0.017	mg/kg	
77-47-4	Hexachlorocyclopentadiene ^b	ND	0.43	0.017	mg/kg	
67-72-1	Hexachloroethane	ND	0.22	0.021	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.043	0.020	mg/kg	
78-59-1	Isophorone	ND	0.086	0.0092	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.043	0.0098	mg/kg	
88-74-4	2-Nitroaniline	ND	0.22	0.010	mg/kg	
99-09-2	3-Nitroaniline	ND	0.22	0.011	mg/kg	
100-01-6	4-Nitroaniline ^b	ND	0.22	0.011	mg/kg	
91-20-3	Naphthalene	ND	0.043	0.012	mg/kg	
98-95-3	Nitrobenzene	ND	0.086	0.017	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.086	0.012	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.22	0.016	mg/kg	
85-01-8	Phenanthrene	ND	0.043	0.015	mg/kg	
129-00-0	Pyrene	ND	0.043	0.014	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.22	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		10-99%

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E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SED5-032423		
Lab Sample ID:	JD62646-4	Date Sampled:	03/24/23
Matrix:	SO - Sediment	Date Received:	03/25/23
Method:	SW846 8270E SW846 3546	Percent Solids:	74.9
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	74%		10-96%
118-79-6	2,4,6-Tribromophenol	114%		10-123%
4165-60-0	Nitrobenzene-d5	90%		10-109%
321-60-8	2-Fluorobiphenyl	89%		11-109%
1718-51-0	Terphenyl-d14	91%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.56	.23	mg/kg	J
	system artifact/aldol-condensation	3.61	.22	mg/kg	J
	system artifact	4.33	.37	mg/kg	J
	unknown	4.99	.19	mg/kg	J
	unknown acid	9.46	.45	mg/kg	J
57-10-3	n-Hexadecanoic acid	9.52	.43	mg/kg	JN
	unknown acid	10.56	.18	mg/kg	J
	Sitosterol	16.69	.34	mg/kg	J
	Total TIC, Semi-Volatile		1.59	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SED5-032423	
Lab Sample ID:	JD62646-4	Date Sampled: 03/24/23
Matrix:	SO - Sediment	Date Received: 03/25/23
Method:	SW846 8151A SW846 3546	Percent Solids: 74.9
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OA165790.D	1	03/30/23 21:56	RK	03/29/23 14:00	OP45519	GOA5863
Run #2							

	Initial Weight	Final Volume
Run #1	16.3 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.020	0.011	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.0041	0.0023	mg/kg	
93-76-5	2,4,5-T	ND	0.0041	0.0020	mg/kg	
75-99-0	Dalapon	ND	0.0041	0.0025	mg/kg	
1918-00-9	Dicamba	ND	0.0041	0.0021	mg/kg	
120-36-5	Dichloroprop	ND	0.020	0.011	mg/kg	
88-85-7	Dinoseb	ND	0.020	0.013	mg/kg	
94-74-6	MCPA	ND	2.0	1.1	mg/kg	
93-65-2	MCPP	ND	2.0	1.7	mg/kg	
87-86-5	Pentachlorophenol	ND	0.0020	0.00066	mg/kg	
94-82-6	2,4-DB	ND	0.020	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	57%		10-138%
19719-28-9	2,4-DCAA	68%		10-138%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SED5-032423		
Lab Sample ID:	JD62646-4	Date Sampled:	03/24/23
Matrix:	SO - Sediment	Date Received:	03/25/23
Method:	SW846 8081B SW846 3546	Percent Solids:	74.9
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G90006.D	1	04/06/23 04:05	CP	03/30/23 14:00	OP45513	G6G3264
Run #2	6G89877.D	1	04/01/23 08:56	RK	03/30/23 14:00	OP45513	G6G3259

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2	15.7 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00085	0.00070	mg/kg	
319-84-6	alpha-BHC	ND	0.00085	0.00069	mg/kg	
319-85-7	beta-BHC	ND ^a	0.00085	0.00077	mg/kg	
319-86-8	delta-BHC	ND	0.00085	0.00082	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00085	0.00063	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00085	0.00069	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00085	0.00039	mg/kg	
60-57-1	Dieldrin	ND	0.00085	0.00058	mg/kg	
72-54-8	4,4' -DDD	ND	0.00085	0.00078	mg/kg	
72-55-9	4,4' -DDE	ND	0.00085	0.00075	mg/kg	
50-29-3	4,4' -DDT	ND ^a	0.00085	0.00075	mg/kg	
72-20-8	Endrin	ND	0.00085	0.00066	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00085	0.00066	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00085	0.00048	mg/kg	
959-98-8	Endosulfan-I	ND	0.00085	0.00049	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00085	0.00053	mg/kg	
76-44-8	Heptachlor	ND	0.00085	0.00073	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00085	0.00060	mg/kg	
72-43-5	Methoxychlor	ND	0.0017	0.00068	mg/kg	
53494-70-5	Endrin ketone	ND	0.00085	0.00061	mg/kg	
8001-35-2	Toxaphene	ND	0.021	0.020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	123%	100%	13-162%
877-09-8	Tetrachloro-m-xylene	74%	74%	13-162%
2051-24-3	Decachlorobiphenyl	63%	64%	10-180%
2051-24-3	Decachlorobiphenyl	89%	91%	10-180%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SED5-032423	
Lab Sample ID:	JD62646-4	Date Sampled: 03/24/23
Matrix:	SO - Sediment	Date Received: 03/25/23
Method:	SW846 8082A SW846 3546	Percent Solids: 74.9
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2499440.D	1	03/31/23 11:14	MLC	03/30/23 14:00	OP45514	GXX8135
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.044	0.020	mg/kg	
11104-28-2	Aroclor 1221	ND	0.044	0.027	mg/kg	
11141-16-5	Aroclor 1232	ND	0.044	0.028	mg/kg	
53469-21-9	Aroclor 1242	ND	0.044	0.018	mg/kg	
12672-29-6	Aroclor 1248	ND	0.044	0.039	mg/kg	
11097-69-1	Aroclor 1254	ND	0.044	0.024	mg/kg	
11096-82-5	Aroclor 1260	ND	0.044	0.019	mg/kg	
11100-14-4	Aroclor 1268	ND	0.044	0.019	mg/kg	
37324-23-5	Aroclor 1262	ND	0.044	0.029	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	51%		10-174%
877-09-8	Tetrachloro-m-xylene	52%		10-174%
2051-24-3	Decachlorobiphenyl	50%		10-195%
2051-24-3	Decachlorobiphenyl	49%		10-195%

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SED5-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-4	Date Received:	03/25/23
Matrix:	SO - Sediment	Percent Solids:	74.9
Project:	Lyndon Road Landfill		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7150	43	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Antimony	< 1.7	1.7	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Arsenic	3.0	1.7	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Barium	33.1	17	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Beryllium	0.34	0.17	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Cadmium	< 0.43	0.43	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Calcium	27000	870	mg/kg	2	03/29/23	03/31/23	ND	SW846 6010D ³ SW846 3050B ⁴
Chromium	11.1	0.87	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Cobalt	5.1	4.3	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Copper	14.4	2.2	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Iron	14100	43	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Lead	6.9	1.7	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Magnesium	8790	430	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Manganese	244	1.3	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Mercury	< 0.041	0.041	mg/kg	1	03/30/23	03/31/23	LM	SW846 7471B ¹ SW846 7471B ⁵
Nickel	11.5	3.5	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Potassium	1330	870	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Selenium	< 1.7	1.7	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Silver	< 0.43	0.43	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Sodium	< 870	870	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Thallium	< 0.87	0.87	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Vanadium	16.9	4.3	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Zinc	40.6	4.3	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴

(1) Instrument QC Batch: MA53929

(2) Instrument QC Batch: MA53938

(3) Instrument QC Batch: MA53941

(4) Prep QC Batch: MP38708

(5) Prep QC Batch: MP38741

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SED5-032423		
Lab Sample ID:	JD62646-4	Date Sampled:	03/24/23
Matrix:	SO - Sediment	Date Received:	03/25/23
		Percent Solids:	74.9
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.29	0.29	mg/kg	1	03/29/23 12:24	MM	SW846 9012B/LACHAT
Solids, Percent	74.9		%	1	03/28/23 17:20	MP	SM2540 G 18TH ED MOD
Total Organic Carbon	9560	130	mg/kg	1	03/28/23 16:15	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	LR-SW-INT-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-7	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D187640.D	1	04/04/23 18:28	PS	n/a	n/a	V3D7892
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	13.0	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

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J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SW-INT-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-7	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	109%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

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Report of Analysis

Page 1 of 3

Client Sample ID:	LR-SW-INT-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-7	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR1301.D	1	04/03/23 11:56	KH	03/31/23 08:30	OP45524	ECR51
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol ^a	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol ^a	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol ^a	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol ^b	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	0.19	1.0	0.19	ug/l	J
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate ^a	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

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Report of Analysis

Client Sample ID:	LR-SW-INT-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-7	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	4.2	2.0	0.50	ug/l	B
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^b	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		10-71%

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Report of Analysis

Client Sample ID:	LR-SW-INT-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-7	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	21%		10-58%
118-79-6	2,4,6-Tribromophenol	80%		22-144%
4165-60-0	Nitrobenzene-d5	63%		28-118%
321-60-8	2-Fluorobiphenyl	61%		34-116%
1718-51-0	Terphenyl-d14	47%		10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
85-41-6	unknown	2.40	8.3	ug/l	J
	unknown	2.54	7.1	ug/l	J
	Internal standard added for SIM test	3.50	4.1	ug/l	J
	Internal standard added for SIM test	4.54	4.6	ug/l	J
	Phthalimide	5.09	7.1	ug/l	JN
	Internal standard added for SIM test	5.56	4.8	ug/l	J
	Internal standard added for SIM test	7.41	6	ug/l	J
	unknown	9.47	6.5	ug/l	J
	unknown	9.82	4.1	ug/l	J
	unknown	10.47	9.1	ug/l	J
	unknown	10.85	8.7	ug/l	J
	Total TIC, Semi-Volatile		50.9	ug/l	J

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW-INT-032423	
Lab Sample ID:	JD62646-7	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8270E BY SIM SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M115255.D	1	04/03/23 15:41	JY	03/31/23 08:30	OP45524A	E4M5375
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.262	0.10	0.050	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	69%		23-127%		
321-60-8	2-Fluorobiphenyl	62%		23-114%		
1718-51-0	Terphenyl-d14	41%		10-121%		

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW-INT-032423	
Lab Sample ID:	JD62646-7	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8151A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4374.D	1	03/31/23 04:12	RK	03/28/23 12:00	OP45495	G9G232
Run #2							

	Initial Volume	Final Volume
Run #1	245 ml	2.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.41	0.19	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	0.082	0.051	ug/l	
93-76-5	2,4,5-T	ND	0.082	0.044	ug/l	
75-99-0	Dalapon	ND	0.082	0.062	ug/l	
1918-00-9	Dicamba	ND	0.082	0.025	ug/l	
120-36-5	Dichloroprop	ND	0.41	0.16	ug/l	
88-85-7	Dinoseb	ND	0.41	0.16	ug/l	
94-74-6	MCPA ^a	ND	41	28	ug/l	
93-65-2	MCP ^a	ND	41	26	ug/l	
87-86-5	Pentachlorophenol	ND	0.082	0.042	ug/l	
94-82-6	2,4-DB	ND	0.41	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	37%		10-150%
19719-28-9	2,4-DCAA	37%		10-150%

(a) Associated CCV outside of control limits high, sample was ND.

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW-INT-032423	
Lab Sample ID:	JD62646-7	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8081B SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G183855.D	1	03/29/23 02:51	RK	03/28/23 06:50	OP45491	G1G6439
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0080	0.0041	ug/l	
319-84-6	alpha-BHC	ND	0.0080	0.0042	ug/l	
319-85-7	beta-BHC	ND	0.0080	0.0064	ug/l	
319-86-8	delta-BHC	ND	0.0080	0.0053	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	0.0048	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0080	0.0039	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0080	0.0034	ug/l	
60-57-1	Dieldrin	ND	0.0080	0.0061	ug/l	
72-54-8	4,4' -DDD	ND	0.0080	0.0046	ug/l	
72-55-9	4,4' -DDE	ND	0.0080	0.0040	ug/l	
50-29-3	4,4' -DDT	ND	0.0080	0.0055	ug/l	
72-20-8	Endrin	ND	0.0080	0.0048	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	0.0044	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	0.0054	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	0.0050	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	0.0039	ug/l	
76-44-8	Heptachlor	ND	0.0080	0.0036	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	0.0048	ug/l	
72-43-5	Methoxychlor	ND	0.016	0.0054	ug/l	
8001-35-2	Toxaphene	ND	0.20	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	28%		10-175%
877-09-8	Tetrachloro-m-xylene	29%		10-175%
2051-24-3	Decachlorobiphenyl	24%		10-128%
2051-24-3	Decachlorobiphenyl	30%		10-128%

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW-INT-032423	
Lab Sample ID:	JD62646-7	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8082A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2499314.D	1	03/29/23 05:30	RK	03/28/23 06:50	OP45492	GXX8132
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.16	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	0.34	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.21	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	0.18	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	0.10	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	0.33	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	0.12	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	28%		10-169%
877-09-8	Tetrachloro-m-xylene	27%		10-169%
2051-24-3	Decachlorobiphenyl	21%		10-130%
2051-24-3	Decachlorobiphenyl	20%		10-130%

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RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SW-INT-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-7	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Antimony	< 6.0	6.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Arsenic	< 3.0	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Barium	958	200	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Calcium	196000	5000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Copper	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Iron	29300	100	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Lead	18.2	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Magnesium	51800	5000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Manganese	1020	15	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	03/31/23	03/31/23	LM	SW846 7470A ¹ SW846 7470A ⁵
Nickel	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Potassium	< 10000	10000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Silver	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Sodium	67200	10000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Thallium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ² SW846 3010A ⁴
Zinc	57.8	20	ug/l	1	04/04/23	04/05/23	ND	SW846 6010D ³ SW846 3010A ⁶

(1) Instrument QC Batch: MA53937

(2) Instrument QC Batch: MA53941

(3) Instrument QC Batch: MA53961

(4) Prep QC Batch: MP38727

(5) Prep QC Batch: MP38772

(6) Prep QC Batch: MP38816

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW-INT-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-7	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	03/29/23 12:46	MM	EPA 335.4/LACHAT

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	LR-DUP-032423	
Lab Sample ID:	JD62646-8	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8260D	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D126559.D	1	04/03/23 19:47	BK	n/a	n/a	V4D5616
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^b	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^b	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

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B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-DUP-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-8	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	94%		80-120%
460-00-4	4-Bromofluorobenzene	93%		82-114%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	4.43	73	ug/l	J
	Total TIC, Volatile		0	ug/l	

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-DUP-032423	
Lab Sample ID:	JD62646-8	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8270E SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR1302.D	1	04/03/23 12:13	KH	03/31/23 08:30	OP45524	ECR51
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol ^a	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol ^a	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol ^a	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol ^b	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate ^a	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit

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B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-DUP-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-8	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	2.6	2.0	0.50	ug/l	B
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^b	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		10-71%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-DUP-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-8	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	23%		10-58%
118-79-6	2,4,6-Tribromophenol	91%		22-144%
4165-60-0	Nitrobenzene-d5	67%		28-118%
321-60-8	2-Fluorobiphenyl	65%		34-116%
1718-51-0	Terphenyl-d14	68%		10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard added for SIM test	3.50	4.1	ug/l	J
	Internal standard added for SIM test	4.54	4.9	ug/l	J
	Internal standard added for SIM test	5.56	4.6	ug/l	J
	Internal standard added for SIM test	7.41	4.5	ug/l	J
	unknown	9.47	6.8	ug/l	J
	Internal standard added for SIM test	10.06	6	ug/l	J
	unknown	11.02	4.7	ug/l	J
	Total TIC, Semi-Volatile		11.5	ug/l	J

- (a) Associated CCV outside of control limits high, sample was ND.
 (b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-DUP-032423	
Lab Sample ID:	JD62646-8	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8270E BY SIM SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M115256.D	1	04/03/23 16:02	JY	03/31/23 08:30	OP45524A	E4M5375
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		23-127%
321-60-8	2-Fluorobiphenyl	64%		23-114%
1718-51-0	Terphenyl-d14	60%		10-121%

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-DUP-032423	
Lab Sample ID:	JD62646-8	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8151A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4375.D	1	03/31/23 04:33	RK	03/28/23 12:00	OP45495	G9G232
Run #2							

	Initial Volume	Final Volume
Run #1	245 ml	2.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.41	0.19	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	0.082	0.051	ug/l	
93-76-5	2,4,5-T	ND	0.082	0.044	ug/l	
75-99-0	Dalapon	ND	0.082	0.062	ug/l	
1918-00-9	Dicamba	ND	0.082	0.025	ug/l	
120-36-5	Dichloroprop	ND	0.41	0.16	ug/l	
88-85-7	Dinoseb	ND	0.41	0.16	ug/l	
94-74-6	MCPA ^a	ND	41	28	ug/l	
93-65-2	MCPA ^a	ND	41	26	ug/l	
87-86-5	Pentachlorophenol	ND	0.082	0.042	ug/l	
94-82-6	2,4-DB	ND	0.41	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	79%		10-150%
19719-28-9	2,4-DCAA	85%		10-150%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-DUP-032423	
Lab Sample ID:	JD62646-8	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8081B SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G183856.D	1	03/29/23 03:08	RK	03/28/23 06:50	OP45491	G1G6439
Run #2							

	Initial Volume	Final Volume
Run #1	265 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0075	0.0039	ug/l	
319-84-6	alpha-BHC	ND	0.0075	0.0039	ug/l	
319-85-7	beta-BHC	ND	0.0075	0.0060	ug/l	
319-86-8	delta-BHC	ND	0.0075	0.0050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0075	0.0045	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0075	0.0037	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0075	0.0032	ug/l	
60-57-1	Dieldrin	ND	0.0075	0.0058	ug/l	
72-54-8	4,4' -DDD	ND	0.0075	0.0043	ug/l	
72-55-9	4,4' -DDE	ND	0.0075	0.0038	ug/l	
50-29-3	4,4' -DDT	ND	0.0075	0.0052	ug/l	
72-20-8	Endrin	ND	0.0075	0.0046	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0075	0.0041	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0075	0.0051	ug/l	
53494-70-5	Endrin ketone	ND	0.0075	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.0075	0.0040	ug/l	
33213-65-9	Endosulfan-II	ND	0.0075	0.0037	ug/l	
76-44-8	Heptachlor	ND	0.0075	0.0034	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0075	0.0045	ug/l	
72-43-5	Methoxychlor	ND	0.015	0.0051	ug/l	
8001-35-2	Toxaphene	ND	0.19	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		10-175%
877-09-8	Tetrachloro-m-xylene	74%		10-175%
2051-24-3	Decachlorobiphenyl	72%		10-128%
2051-24-3	Decachlorobiphenyl	99%		10-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-DUP-032423	
Lab Sample ID:	JD62646-8	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8082A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2499315.D	1	03/29/23 05:47	RK	03/28/23 06:50	OP45492	GXX8132
Run #2							

	Initial Volume	Final Volume
Run #1	265 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.38	0.15	ug/l	
11104-28-2	Aroclor 1221	ND	0.38	0.32	ug/l	
11141-16-5	Aroclor 1232	ND	0.38	0.20	ug/l	
53469-21-9	Aroclor 1242	ND	0.38	0.17	ug/l	
12672-29-6	Aroclor 1248	ND	0.38	0.095	ug/l	
11097-69-1	Aroclor 1254	ND	0.38	0.31	ug/l	
11096-82-5	Aroclor 1260	ND	0.38	0.11	ug/l	
11100-14-4	Aroclor 1268	ND	0.38	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.38	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		10-169%
877-09-8	Tetrachloro-m-xylene	70%		10-169%
2051-24-3	Decachlorobiphenyl	66%		10-130%
2051-24-3	Decachlorobiphenyl	60%		10-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: LR-DUP-032423

Lab Sample ID: JD62646-8

Matrix: AQ - Surface Water

Project: Lyndon Road Landfill

Date Sampled: 03/24/23

Date Received: 03/25/23

Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	< 200	200	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Barium	< 200	200	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Calcium	83500	5000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Chromium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Cobalt	< 50	50	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Copper	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Iron	257	100	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Magnesium	27300	5000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Manganese	44.4	15	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	03/31/23	03/31/23	LM	SW846 7470A ¹	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Selenium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Sodium	66300	10000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Thallium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Vanadium	< 50	50	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³
Zinc	< 20	20	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ³

(1) Instrument QC Batch: MA53937

(2) Instrument QC Batch: MA53941

(3) Prep QC Batch: MP38727

(4) Prep QC Batch: MP38772

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-DUP-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-8	Date Received:	03/25/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	03/29/23 12:49	MM	EPA 335.4/LACHAT

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR-DUP-032423		
Lab Sample ID:	JD62646-9	Date Sampled:	03/24/23
Matrix:	SO - Sediment	Date Received:	03/25/23
Method:	SW846 8260D	Percent Solids:	77.0
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C182477.D	1	04/04/23 13:51	PS	n/a	n/a	V3C7986
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	0.0620	0.013	0.0053	mg/kg	
71-43-2	Benzene	ND	0.00064	0.00058	mg/kg	
74-97-5	Bromochloromethane	ND	0.0064	0.00071	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0025	0.00055	mg/kg	
75-25-2	Bromoform	ND	0.0064	0.0017	mg/kg	
74-83-9	Bromomethane ^b	ND	0.0064	0.00097	mg/kg	
78-93-3	2-Butanone (MEK)	0.0061	0.013	0.0031	mg/kg	J
75-15-0	Carbon disulfide	ND	0.0025	0.00068	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0025	0.00079	mg/kg	
108-90-7	Chlorobenzene	ND	0.0025	0.00058	mg/kg	
75-00-3	Chloroethane	ND	0.0064	0.00075	mg/kg	
67-66-3	Chloroform	ND	0.0025	0.00066	mg/kg	
74-87-3	Chloromethane	ND	0.0064	0.0025	mg/kg	
110-82-7	Cyclohexane	ND	0.0025	0.00084	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0025	0.00088	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0025	0.00071	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0013	0.00054	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0013	0.00070	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0013	0.00063	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0013	0.00063	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0064	0.00093	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0013	0.00063	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0013	0.00060	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0013	0.00083	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0013	0.0011	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0013	0.00078	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0025	0.00060	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0025	0.00060	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0025	0.00058	mg/kg	
100-41-4	Ethylbenzene	ND	0.0013	0.00058	mg/kg	
76-13-1	Freon 113	ND	0.0064	0.0034	mg/kg	
591-78-6	2-Hexanone	ND	0.0064	0.0027	mg/kg	

ND = Not detected MDL = Method Detection Limit

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B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-DUP-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-9	Date Received:	03/25/23
Matrix:	SO - Sediment	Percent Solids:	77.0
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.0025	0.0018	mg/kg	
79-20-9	Methyl Acetate	0.0026	0.0064	0.0018	mg/kg	J
108-87-2	Methylcyclohexane	ND	0.0025	0.0011	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0013	0.00060	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0064	0.0029	mg/kg	
75-09-2	Methylene chloride	ND	0.0064	0.0033	mg/kg	
100-42-5	Styrene	ND	0.0025	0.00051	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0025	0.00076	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0025	0.00074	mg/kg	
108-88-3	Toluene	ND	0.0013	0.00067	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0064	0.0032	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0064	0.0032	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0025	0.00061	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0025	0.00071	mg/kg	
79-01-6	Trichloroethene	ND	0.0013	0.00097	mg/kg	
75-69-4	Trichlorofluoromethane ^b	ND	0.0064	0.00087	mg/kg	
75-01-4	Vinyl chloride	ND	0.0025	0.00061	mg/kg	
	m,p-Xylene	ND	0.0013	0.0011	mg/kg	
95-47-6	o-Xylene	ND	0.0013	0.00058	mg/kg	
1330-20-7	Xylene (total)	ND	0.0013	0.00058	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-124%
17060-07-0	1,2-Dichloroethane-D4	101%		75-133%
2037-26-5	Toluene-D8	99%		79-125%
460-00-4	4-Bromofluorobenzene	97%		58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	mg/kg	

(a) Associated CCV outside of control limits high.

(b) Associated CCV outside of control limits low. No sensitivity check provided.

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-DUP-032423	
Lab Sample ID:	JD62646-9	Date Sampled: 03/24/23
Matrix:	SO - Sediment	Date Received: 03/25/23
Method:	SW846 8270E SW846 3546	Percent Solids: 77.0
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z163251.D	1	03/30/23 17:10	GA	03/29/23 14:30	OP45501	EZ8086
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.085	0.021	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.21	0.026	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.21	0.036	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.21	0.076	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.21	0.16	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.21	0.046	mg/kg	
95-48-7	2-Methylphenol	ND	0.085	0.027	mg/kg	
	3&4-Methylphenol	ND	0.085	0.035	mg/kg	
88-75-5	2-Nitrophenol	ND	0.21	0.028	mg/kg	
100-02-7	4-Nitrophenol	ND	0.43	0.11	mg/kg	
87-86-5	Pentachlorophenol	ND	0.17	0.040	mg/kg	
108-95-2	Phenol	ND	0.085	0.022	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.21	0.028	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.21	0.032	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.21	0.025	mg/kg	
83-32-9	Acenaphthene	ND	0.043	0.015	mg/kg	
208-96-8	Acenaphthylene	ND	0.043	0.022	mg/kg	
98-86-2	Acetophenone	ND	0.21	0.0092	mg/kg	
120-12-7	Anthracene	ND	0.043	0.026	mg/kg	
1912-24-9	Atrazine	ND	0.085	0.018	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.043	0.012	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.043	0.019	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.043	0.019	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.043	0.021	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.043	0.020	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.085	0.016	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.085	0.010	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.085	0.0058	mg/kg	
100-52-7	Benzaldehyde	ND	0.21	0.011	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.085	0.010	mg/kg	
106-47-8	4-Chloroaniline	ND	0.21	0.015	mg/kg	
86-74-8	Carbazole	ND	0.085	0.0062	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-DUP-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-9	Date Received:	03/25/23
Matrix:	SO - Sediment	Percent Solids:	77.0
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.085	0.017	mg/kg	
218-01-9	Chrysene	ND	0.043	0.013	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.085	0.0091	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.085	0.018	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.085	0.015	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.085	0.014	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.043	0.013	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.043	0.021	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.085	0.036	mg/kg	
123-91-1	1,4-Dioxane	ND	0.043	0.028	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.043	0.019	mg/kg	
132-64-9	Dibenzofuran	ND	0.085	0.017	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.085	0.0069	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.085	0.011	mg/kg	
84-66-2	Diethyl phthalate	ND	0.085	0.0091	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.085	0.0076	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.085	0.010	mg/kg	
206-44-0	Fluoranthene	ND	0.043	0.019	mg/kg	
86-73-7	Fluorene	ND	0.043	0.020	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.085	0.011	mg/kg	
87-68-3	Hexachlorobutadiene ^a	ND	0.043	0.017	mg/kg	
77-47-4	Hexachlorocyclopentadiene ^b	ND	0.43	0.017	mg/kg	
67-72-1	Hexachloroethane	ND	0.21	0.021	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.043	0.020	mg/kg	
78-59-1	Isophorone	ND	0.085	0.0091	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.043	0.0096	mg/kg	
88-74-4	2-Nitroaniline	ND	0.21	0.010	mg/kg	
99-09-2	3-Nitroaniline	ND	0.21	0.011	mg/kg	
100-01-6	4-Nitroaniline ^b	ND	0.21	0.011	mg/kg	
91-20-3	Naphthalene	ND	0.043	0.012	mg/kg	
98-95-3	Nitrobenzene	ND	0.085	0.016	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.085	0.012	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.21	0.016	mg/kg	
85-01-8	Phenanthrene	ND	0.043	0.014	mg/kg	
129-00-0	Pyrene	ND	0.043	0.014	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.21	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		10-99%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-DUP-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-9	Date Received:	03/25/23
Matrix:	SO - Sediment	Percent Solids:	77.0
Method:	SW846 8270E SW846 3546		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	67%		10-96%
118-79-6	2,4,6-Tribromophenol	102%		10-123%
4165-60-0	Nitrobenzene-d5	80%		10-109%
321-60-8	2-Fluorobiphenyl	78%		11-109%
1718-51-0	Terphenyl-d14	81%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact	3.56	.19	mg/kg	J
	System artifact/aldol-condensation	3.61	.21	mg/kg	J
	system artifact	4.33	.32	mg/kg	J
	Unknown	9.41	.22	mg/kg	J
	Unknown	9.46	.42	mg/kg	J
57-10-3	n-Hexadecanoic acid	9.52	.53	mg/kg	JN
	Unknown	13.48	.99	mg/kg	J
	Unknown	13.54	.4	mg/kg	J
	Unknown	13.76	.71	mg/kg	J
	Unknown	13.89	.26	mg/kg	J
	Unknown	14.22	.24	mg/kg	J
	Alkane	14.48	.42	mg/kg	J
	Unknown	15.13	.17	mg/kg	J
	Alkane	15.37	.4	mg/kg	J
	Unknown	15.41	.2	mg/kg	J
	Unknown	15.48	.27	mg/kg	J
59-02-9	Vitamin E	15.58	.22	mg/kg	JN
	Sitosterol	16.69	.59	mg/kg	J
	Total TIC, Semi-Volatile		6.04	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR-DUP-032423		
Lab Sample ID:	JD62646-9	Date Sampled:	03/24/23
Matrix:	SO - Sediment	Date Received:	03/25/23
Method:	SW846 8151A SW846 3546	Percent Solids:	77.0
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OA165791.D	1	03/30/23 22:20	RK	03/29/23 14:00	OP45519	GOA5863
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.022	0.012	mg/kg	
93-72-1	2,4,5-TP (Silvex)	ND	0.0043	0.0024	mg/kg	
93-76-5	2,4,5-T	ND	0.0043	0.0021	mg/kg	
75-99-0	Dalapon	ND	0.0043	0.0026	mg/kg	
1918-00-9	Dicamba	ND	0.0043	0.0022	mg/kg	
120-36-5	Dichloroprop	ND	0.022	0.012	mg/kg	
88-85-7	Dinoseb	ND	0.022	0.014	mg/kg	
94-74-6	MCPA	ND	2.2	1.2	mg/kg	
93-65-2	MCP	ND	2.2	1.8	mg/kg	
87-86-5	Pentachlorophenol	ND	0.0022	0.00070	mg/kg	
94-82-6	2,4-DB	ND	0.022	0.012	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	29%		10-138%
19719-28-9	2,4-DCAA	47%		10-138%

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR-DUP-032423		
Lab Sample ID:	JD62646-9	Date Sampled:	03/24/23
Matrix:	SO - Sediment	Date Received:	03/25/23
Method:	SW846 8081B SW846 3546	Percent Solids:	77.0
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G90007.D	1	04/06/23 04:23	CP	03/30/23 14:00	OP45513	G6G3264
Run #2	6G89878.D	1	04/01/23 09:13	RK	03/30/23 14:00	OP45513	G6G3259

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2	16.0 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00081	0.00067	mg/kg	
319-84-6	alpha-BHC	ND	0.00081	0.00066	mg/kg	
319-85-7	beta-BHC	ND ^a	0.00081	0.00073	mg/kg	
319-86-8	delta-BHC	ND	0.00081	0.00078	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00081	0.00060	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00081	0.00066	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00081	0.00037	mg/kg	
60-57-1	Dieldrin	ND	0.00081	0.00056	mg/kg	
72-54-8	4,4' -DDD	ND	0.00081	0.00075	mg/kg	
72-55-9	4,4' -DDE	ND ^a	0.00081	0.00071	mg/kg	
50-29-3	4,4' -DDT	ND ^a	0.00081	0.00072	mg/kg	
72-20-8	Endrin	ND	0.00081	0.00063	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00081	0.00063	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00081	0.00046	mg/kg	
959-98-8	Endosulfan-I	ND	0.00081	0.00047	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00081	0.00051	mg/kg	
76-44-8	Heptachlor	ND	0.00081	0.00070	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00081	0.00057	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	0.00065	mg/kg	
53494-70-5	Endrin ketone	ND	0.00081	0.00059	mg/kg	
8001-35-2	Toxaphene	ND	0.020	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	39%	40%	13-162%
877-09-8	Tetrachloro-m-xylene	43%	44%	13-162%
2051-24-3	Decachlorobiphenyl	30%	34%	10-180%
2051-24-3	Decachlorobiphenyl	52%	53%	10-180%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR-DUP-032423		
Lab Sample ID:	JD62646-9	Date Sampled:	03/24/23
Matrix:	SO - Sediment	Date Received:	03/25/23
Method:	SW846 8082A SW846 3546	Percent Solids:	77.0
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2499441.D	1	03/31/23 11:31	MLC	03/30/23 14:00	OP45514	GXX8135
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.041	0.019	mg/kg	
11104-28-2	Aroclor 1221	ND	0.041	0.025	mg/kg	
11141-16-5	Aroclor 1232	ND	0.041	0.026	mg/kg	
53469-21-9	Aroclor 1242	ND	0.041	0.017	mg/kg	
12672-29-6	Aroclor 1248	ND	0.041	0.036	mg/kg	
11097-69-1	Aroclor 1254	ND	0.041	0.022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.041	0.017	mg/kg	
11100-14-4	Aroclor 1268	ND	0.041	0.017	mg/kg	
37324-23-5	Aroclor 1262	ND	0.041	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		10-174%
877-09-8	Tetrachloro-m-xylene	89%		10-174%
2051-24-3	Decachlorobiphenyl	82%		10-195%
2051-24-3	Decachlorobiphenyl	82%		10-195%

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-DUP-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-9	Date Received:	03/25/23
Matrix:	SO - Sediment	Percent Solids:	77.0
Project:	Lyndon Road Landfill		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5840	44	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Antimony	< 1.8	1.8	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Arsenic	2.0	1.8	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Barium	26.6	18	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Beryllium	0.28	0.18	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Cadmium	< 0.44	0.44	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Calcium	20000	890	mg/kg	2	03/29/23	03/31/23	ND	SW846 6010D ³ SW846 3050B ⁴
Chromium	8.7	0.89	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Cobalt	< 4.4	4.4	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Copper	10.4	2.2	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Iron	10700	44	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Lead	5.5	1.8	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Magnesium	6840	440	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Manganese	179	1.3	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Mercury	< 0.039	0.039	mg/kg	1	03/30/23	03/31/23	LM	SW846 7471B ¹ SW846 7471B ⁵
Nickel	9.1	3.6	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Potassium	1130	890	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Selenium	< 1.8	1.8	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Silver	< 0.44	0.44	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Sodium	< 890	890	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Thallium	< 0.89	0.89	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Vanadium	12.9	4.4	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴
Zinc	33.4	4.4	mg/kg	1	03/29/23	03/30/23	ND	SW846 6010D ² SW846 3050B ⁴

(1) Instrument QC Batch: MA53929

(2) Instrument QC Batch: MA53938

(3) Instrument QC Batch: MA53941

(4) Prep QC Batch: MP38708

(5) Prep QC Batch: MP38741

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-DUP-032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-9	Date Received:	03/25/23
Matrix:	SO - Sediment	Percent Solids:	77.0
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.31	0.31	mg/kg	1	03/29/23 12:24	MM	SW846 9012B/LACHAT
Solids, Percent	77		%	1	03/28/23 17:20	MP	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW7-032423	
Lab Sample ID:	JD62646-10	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8270E BY SIM SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M115257.D	1	04/03/23 16:24	JY	03/31/23 08:30	OP45524A	E4M5375
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		23-127%
321-60-8	2-Fluorobiphenyl	61%		23-114%
1718-51-0	Terphenyl-d14	55%		10-121%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
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Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SW8-032423	
Lab Sample ID:	JD62646-11	Date Sampled: 03/24/23
Matrix:	AQ - Surface Water	Date Received: 03/25/23
Method:	SW846 8270E BY SIM SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M115258.D	1	04/03/23 16:46	JY	03/31/23 08:30	OP45524A	E4M5375
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		23-127%
321-60-8	2-Fluorobiphenyl	65%		23-114%
1718-51-0	Terphenyl-d14	60%		10-121%

ND = Not detected MDL = Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SED8-032423	
Lab Sample ID:	JD62646-12	Date Sampled: 03/24/23
Matrix:	SO - Sediment	Date Received: 03/25/23
Method:	SW846 8270E SW846 3546	Percent Solids: 76.9
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z163252.D	1	03/30/23 17:34	GA	03/29/23 14:30	OP45501	EZ8086
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.041	0.027	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		10-109%
321-60-8	2-Fluorobiphenyl	81%		11-109%
1718-51-0	Terphenyl-d14	80%		10-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR-SED8-032423		
Lab Sample ID:	JD62646-12	Date Sampled:	03/24/23
Matrix:	SO - Sediment	Date Received:	03/25/23
		Percent Solids:	76.9
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.9		%	1	03/28/23 17:20	MP	SM2540 G 18TH ED MOD
Total Organic Carbon	9020	130	mg/kg	1	03/28/23 16:53	MB	LLOYD KAHN 1988 MOD

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	LR DRUMWC_032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-15	Date Received:	03/25/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Lyndon Road Landfill		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G1621A.D	1	04/05/23 21:54	KD	n/a	n/a	V1G60
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	17.8	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	128	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	21.5	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: LR DRUMWC_032423
Lab Sample ID: JD62646-15
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: Lyndon Road Landfill

Date Sampled: 03/24/23
Date Received: 03/25/23
Percent Solids: n/a

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	86.3	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	142	1.0	0.78	ug/l	
95-47-6	o-Xylene	46.7	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	189	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		80-120%
17060-07-0	1,2-Dichloroethane-D4	86%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR DRUMWC_032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-15	Date Received:	03/25/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CR1304.D	1	04/03/23 12:48	KH	03/31/23 08:30	OP45524	ECR51
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	2.6	5.0	2.4	ug/l	J
51-28-5	2,4-Dinitrophenol ^a	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol ^a	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	0.92	2.0	0.89	ug/l	J
	3&4-Methylphenol	1.3	2.0	0.88	ug/l	J
88-75-5	2-Nitrophenol ^a	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol ^b	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	0.40	2.0	0.39	ug/l	J
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	0.38	2.0	0.21	ug/l	J
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate ^c	0.61	2.0	0.46	ug/l	J
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit

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RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR DRUMWC_032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-15	Date Received:	03/25/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	1.3	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	9.4	2.0	0.50	ug/l	B
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene ^b	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	0.29	5.0	0.22	ug/l	J
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		10-71%

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Report of Analysis

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Client Sample ID:	LR DRUMWC_032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-15	Date Received:	03/25/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E SW846 3510C		
Project:	Lyndon Road Landfill		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	26%		10-58%
118-79-6	2,4,6-Tribromophenol	87%		22-144%
4165-60-0	Nitrobenzene-d5	70%		28-118%
321-60-8	2-Fluorobiphenyl	71%		34-116%
1718-51-0	Terphenyl-d14	51%		10-127%

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- (c) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	LR DRUMWC_032423	
Lab Sample ID:	JD62646-15	Date Sampled: 03/24/23
Matrix:	AQ - Ground Water	Date Received: 03/25/23
Method:	SW846 8151A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G4386.D	1	03/31/23 14:22	MLC	03/30/23 12:00	OP45538	G9G233
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	0.25	0.12	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	0.050	0.031	ug/l	
93-76-5	2,4,5-T	ND	0.050	0.027	ug/l	
75-99-0	Dalapon	ND	0.050	0.038	ug/l	
1918-00-9	Dicamba	ND	0.050	0.016	ug/l	
120-36-5	Dichloroprop	ND	0.25	0.097	ug/l	
88-85-7	Dinoseb	ND	0.25	0.098	ug/l	
94-74-6	MCPA	ND	25	17	ug/l	
93-65-2	MCPP ^a	ND	25	16	ug/l	
87-86-5	Pentachlorophenol	ND	0.050	0.026	ug/l	
94-82-6	2,4-DB	ND	0.25	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	22%		10-150%
19719-28-9	2,4-DCAA	18%		10-150%

(a) Associated CCV outside of control limits high, sample was ND.

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	LR DRUMWC_032423	
Lab Sample ID:	JD62646-15	Date Sampled: 03/24/23
Matrix:	AQ - Ground Water	Date Received: 03/25/23
Method:	SW846 8081B SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G89807.D	1	03/30/23 23:58	TP	03/29/23 15:00	OP45527	G6G3256
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0080	0.0041	ug/l	
319-84-6	alpha-BHC	ND	0.0080	0.0042	ug/l	
319-85-7	beta-BHC	ND	0.0080	0.0064	ug/l	
319-86-8	delta-BHC	ND	0.0080	0.0053	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	0.0048	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0080	0.0039	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0080	0.0034	ug/l	
60-57-1	Dieldrin	ND	0.0080	0.0061	ug/l	
72-54-8	4,4' -DDD	ND	0.0080	0.0046	ug/l	
72-55-9	4,4' -DDE	ND	0.0080	0.0040	ug/l	
50-29-3	4,4' -DDT	ND	0.0080	0.0055	ug/l	
72-20-8	Endrin	ND	0.0080	0.0048	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	0.0044	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	0.0054	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	0.0050	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	0.0039	ug/l	
76-44-8	Heptachlor	ND	0.0080	0.0036	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	0.0048	ug/l	
72-43-5	Methoxychlor	ND	0.016	0.0054	ug/l	
8001-35-2	Toxaphene	ND	0.20	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		10-175%
877-09-8	Tetrachloro-m-xylene	75%		10-175%
2051-24-3	Decachlorobiphenyl	46%		10-128%
2051-24-3	Decachlorobiphenyl	66%		10-128%

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR DRUMWC_032423	
Lab Sample ID:	JD62646-15	Date Sampled: 03/24/23
Matrix:	AQ - Ground Water	Date Received: 03/25/23
Method:	SW846 8082A SW846 3510C	Percent Solids: n/a
Project:	Lyndon Road Landfill	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G129394.D	1	03/31/23 03:40	CP	03/29/23 15:00	OP45528	G5G3296
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.16	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	0.34	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.21	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	0.18	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	0.10	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	0.33	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	0.12	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	61%		10-169%
877-09-8	Tetrachloro-m-xylene	59%		10-169%
2051-24-3	Decachlorobiphenyl	44%		10-130%
2051-24-3	Decachlorobiphenyl	42%		10-130%

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Report of Analysis

Page 1 of 1

Client Sample ID:	LR DRUMWC_032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-15	Date Received:	03/25/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Aluminum	< 200	200	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Antimony ^a	< 30	30	ug/l	5	03/30/23	04/03/23	ND	SW846 6010D ³	SW846 3010A ⁴
Arsenic ^a	< 15	15	ug/l	5	03/30/23	04/03/23	ND	SW846 6010D ³	SW846 3010A ⁴
Barium	236	200	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Beryllium	3.3	1.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Calcium	278000	25000	ug/l	5	03/30/23	04/03/23	ND	SW846 6010D ³	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Iron	8230	100	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Lead ^a	< 15	15	ug/l	5	03/30/23	04/03/23	ND	SW846 6010D ³	SW846 3010A ⁴
Magnesium	97900	5000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Manganese	645	15	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	03/31/23	03/31/23	LM	SW846 7470A ¹	SW846 7470A ⁵
Nickel	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Potassium	19600	10000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Sodium	89500	10000	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Thallium ^a	< 50	50	ug/l	5	03/30/23	04/03/23	ND	SW846 6010D ³	SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴
Zinc	< 20	20	ug/l	1	03/30/23	03/31/23	ND	SW846 6010D ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA53937

(2) Instrument QC Batch: MA53941

(3) Instrument QC Batch: MA53953

(4) Prep QC Batch: MP38727

(5) Prep QC Batch: MP38772

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	LR DRUMWC_032423	Date Sampled:	03/24/23
Lab Sample ID:	JD62646-15	Date Received:	03/25/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.26 NC		su	1	03/29/23 19:10	MM	SW846 9040C
Cyanide Reactivity	< 10	10	mg/l	1	03/30/23 17:47	MM	SW846 CHAP7/9012B
Ignitability (Flashpoint)	> 200		Deg. F	1	03/29/23 20:56	MM	SW846 1010B/ASTM D93
Sulfide Reactivity	< 100	100	mg/l	1	03/30/23 16:00	MP	SW846 CHAP7/9034

RL = Reporting Limit



SW
SEP
EN
TB

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PN

MR-031423-72
5814 7371 7422

Client / Reporting Information		Project Information		Billing Information (if different from Report to)		Matrix Codes		
Company Name: Ramboll	Project Name: Lyndon Road Landfill	City: 33041 Washington ST	State: NY	City: 80 Lyndon Rd	State: NY	Company Name: Fairport NY	Matrix Codes: SW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LID - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address: 33041 Washington ST	City: Syracuse NY	State: NY	Zip: 13204	City: Fairport NY	State: NY	Zip: 13204		
Project Contact: Robert Thompson	E-mail: Robert.Thompson@ramboll.com	Project #: 174062910	Street Address: 80 Lyndon Rd	City: Fairport NY	State: NY	Zip: 13204		
Phone #: 315 486 1111	Client Purchase Order #: 174062910	City: Fairport NY	State: NY	Zip: 13204				
Sampler(s) Name(s): R. B. Thompson	Phone #: 315 486 1111	Project Manager: R. B. Thompson	Attention: R. B. Thompson					
Turn Around Time (Business Days): 10 Business Days		Approved By (SGS PM) / Date: Initial Assessment 2 Apr Label Verification		Deliverable: ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ NJ Reduced (Level 3) ☐ Full Tier 1 (Level 4) ☐ Commercial "C" ☐ NJ DKQP		Comments / Special Instructions: CR-SW-INT-032423 Sample, ABB2 for 40' and BSE200 limit to be analyzed from same jar (run) IL AOB CR-DUP-032423 is SW and SED sample 4 K250 ML PCB		
Sample Custody must be documented below each time samples change possession, including courier delivery.		Relinquished by: 1		Relinquished By: FedEx		Relinquished By: 3/25/23		
Relinquished by: 3		Relinquished By: 3		Relinquished By: 3		Relinquished By: 3		
Relinquished by: 5		Relinquished By: 5		Relinquished By: 5		Relinquished By: 5		

JD62646: Chain of Custody

Page 1 of 5



SGS Sample Receipt Summary

Job Number: JD62646

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL - WATER - WAST

Date / Time Received: 3/25/2023 9:30:00 AM

Delivery Method: FED EX

Airbill #'s: 5894 7371 7422

Cooler Temps (Raw Measured) °C: Cooler 1: (4.1); Cooler 2: (3.4); Cooler 3: (3.2); Cooler 4: (3.9); Cooler 5: (3.7); Cooler 6: (4.1); Cooler 7: (3.5);

Cooler Temps (Corrected) °C: Cooler 1: (3.9); Cooler 2: (3.2); Cooler 3: (3.0); Cooler 4: (3.7); Cooler 5: (3.5); Cooler 6: (3.9); Cooler 7: (3.3);

Cooler Security
Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature
Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: IR Gun
3. Cooler media: Ice (Bag)
4. No. Coolers: 7

Quality Control Preservation
Y or N N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation
Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition
Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions
Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Test Strip Lot #s:

Other: (Specify)

Comments:

Additional sample rec'd not on COC: LR Drumwc_032423 3/24/23 10:50 2 x 950mL np for 8270, 4 x 250mL np for PCB, 1 x 500mL HNO3 for MTAL
1 x 500mL np for RCRACLAS, 3 x 40mL HCL for 8260.

JD62646: Chain of Custody

Page 3 of 5

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Responded to by: Marie Meidhof

Response Date: 3/27/2023

Please login for the following tests: V8260TCL20,AB8270TCL20,P8081PESTTCL,P8082PCB11,H8151FL,RCRACLAS, MTAL.

JD62646: Chain of Custody

Page 4 of 5

Job Change Order: JD62646

Requested Date:	3/27/2023	Received Date:	3/25/2023
Account Name:	Ramboll Americas	Due Date:	4/3/2023
Project Description:	Lyndon Road Landfill	Deliverable:	NYASPB
C/O Initiated By:	MARIE_MEI	PM:	MM
		TAT (Days):	7

=====

Sample #:	JD62646-4	Dept:	
Client ID:	LR-SED5-032423	TAT:	7

Change: Removed B827014DIOXAN; compound is included in AB8270TCL20+ test code.

=====

Sample #:	JD62646-9	Dept:	
Client ID:	LR-DUP-032423	TAT:	7

Change: Removed B827014DIOXAN; compound is included in AB8270TCL20+ test code.

=====

Sample #:	JD62646-14	Dept:	
Client ID:	LR-SED9-032423	TAT:	7

Change: Removed B827014DIOXAN; compound is included in AB8270TCL20+ test code.

Above Changes Per: Date/Time: 3/27/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ramboll Americas

Lyndon Road Landfill

1940102910

SGS Job Number: JD64649

Sampling Date: 04/26/23

Report to:

Brandon.haynes@ramboll.com
marie.meidhof@sgs.com
robert.trent@ramboll.com

ATTN: Distribution4

Total number of pages in report: 10



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Sample Summary

Ramboll Americas

Job No: JD64649

Lyndon Road Landfill
Project No: 1940102910

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD64649-1	04/26/23	11:35 JL	04/27/23	SO	Sediment	LR-SED-09-042623
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JD64649-2	04/26/23	11:30 JL	04/27/23	AQ	Surface Water	LR-SW-09-042623
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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-SED-09-042623		
Lab Sample ID:	JD64649-1	Date Sampled:	04/26/23
Matrix:	SO - Sediment	Date Received:	04/27/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	33.3
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5Q14544.D	1	05/19/23 20:18	AFL	05/16/23 09:45	F:OP96898	F:S5Q229
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.00 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0024	0.0015	mg/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.0012	0.00030	mg/kg	
307-24-4	Perfluorohexanoic acid	ND	0.00060	0.00030	mg/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.00060	0.00030	mg/kg	
335-67-1	Perfluorooctanoic acid	0.0044	0.00060	0.00030	mg/kg	
375-95-1	Perfluorononanoic acid	ND	0.00060	0.00035	mg/kg	
335-76-2	Perfluorodecanoic acid	ND	0.00060	0.00030	mg/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.00060	0.00040	mg/kg	
307-55-1	Perfluorododecanoic acid	ND	0.00060	0.00030	mg/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.00060	0.00031	mg/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.00060	0.00030	mg/kg	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.00060	0.00030	mg/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.00060	0.00047	mg/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.00060	0.00048	mg/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.00060	0.00044	mg/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.0050	0.00060	0.00030	mg/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.00060	0.00054	mg/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.00060	0.00043	mg/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.00060	0.00045	mg/kg	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0024	0.0012	mg/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0024	0.0012	mg/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0024	0.0018	mg/kg	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.00060	0.00030	mg/kg	
31506-32-8	MeFOSA	ND	0.00060	0.00041	mg/kg	
4151-50-2	EtFOSA	ND	0.00060	0.00030	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LR-SED-09-042623		
Lab Sample ID:	JD64649-1	Date Sampled:	04/26/23
Matrix:	SO - Sediment	Date Received:	04/27/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	33.3
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.00060	0.00047	mg/kg	
2991-50-6	EtFOSAA	ND	0.00060	0.00059	mg/kg	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.0060	0.0030	mg/kg	
1691-99-2	EtFOSE	ND	0.0060	0.0030	mg/kg	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0024	0.00087	mg/kg	
919005-14-4	ADONA	ND	0.0024	0.0010	mg/kg	
377-73-1	PFMPA	ND	0.0012	0.00060	mg/kg	
863090-89-5	PFMBA	ND	0.0012	0.00060	mg/kg	
151772-58-6	NFDHA	ND	0.0012	0.00073	mg/kg	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0024	0.0013	mg/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0024	0.0012	mg/kg	
113507-82-7	PFESA	ND	0.0012	0.00060	mg/kg	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0030	0.0015	mg/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.015	0.0035	mg/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.015	0.0038	mg/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	60%		20-150%
	13C5-PFPeA	66%		20-150%
	13C5-PFHxA	62%		20-150%
	13C4-PFHpA	58%		20-150%
	13C8-PFOA	61%		20-150%
	13C9-PFNA	62%		20-150%
	13C6-PFDA	61%		20-150%
	13C7-PFUnDA	79%		20-150%
	13C2-PFDoDA	72%		20-150%
	13C2-PFTeDA	54%		20-150%
	13C3-PFBS	77%		20-150%
	13C3-PFHxS	64%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-SED-09-042623		
Lab Sample ID:	JD64649-1	Date Sampled:	04/26/23
Matrix:	SO - Sediment	Date Received:	04/27/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	33.3
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	66%		20-150%
	13C8-FOSA	41%		20-150%
	d3-MeFOSA	41%		20-150%
	d5-EtFOSA	34%		20-150%
	d3-MeFOSAA	62%		20-150%
	d5-EtFOSAA	66%		20-150%
	d7-MeFOSE	36%		20-150%
	d9-EtFOSE	31%		20-150%
	13C2-4:2FTS	52%		20-180%
	13C2-6:2FTS	50%		20-180%
	13C2-8:2FTS	60%		20-180%
	13C3-HFPO-DA	58%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	LR-SW-09-042623		
Lab Sample ID:	JD64649-2	Date Sampled:	04/26/23
Matrix:	AQ - Surface Water	Date Received:	04/27/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6Q18016.D	1	05/18/23 07:17	AFL	05/16/23 14:20	F:OP96918	F:S6Q271
Run #2							

Run #	Initial Volume	Final Volume
Run #1	565 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0085	0.0071	0.0035	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0036	0.0035	0.00088	ug/l	
307-24-4	Perfluorohexanoic acid	0.0021	0.0018	0.00044	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0011	0.0018	0.00044	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0027	0.0018	0.00044	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0018	0.00054	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00044	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00053	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00053	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00074	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00044	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0018	0.0018	0.00088	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0018	0.00099	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0018	0.00088	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00088	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0015	0.0018	0.00088	ug/l	J
68259-12-1	Perfluorononanesulfonic acid	ND	0.0018	0.00088	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.00088	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0018	0.0010	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0071	0.0035	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0071	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0071	0.0036	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0018	0.00088	ug/l	
31506-32-8	MeFOSA	ND	0.0018	0.00088	ug/l	
4151-50-2	EtFOSA	ND	0.0018	0.00088	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	LR-SW-09-042623		
Lab Sample ID:	JD64649-2	Date Sampled:	04/26/23
Matrix:	AQ - Surface Water	Date Received:	04/27/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	Lyndon Road Landfill		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0018	0.00088	ug/l	
2991-50-6	EtFOSAA	ND	0.0018	0.0012	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.018	0.0088	ug/l	
1691-99-2	EtFOSE	ND	0.018	0.0088	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0071	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0071	0.0018	ug/l	
377-73-1	PFMPA	ND	0.0035	0.00088	ug/l	
863090-89-5	PFMBA	ND	0.0035	0.0010	ug/l	
151772-58-6	NFDHA	ND	0.0035	0.0011	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0071	0.0018	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0071	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0035	0.00088	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0088	0.0044	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.044	0.0088	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.044	0.0088	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	35%		20-150%
	13C5-PFPeA	69%		20-150%
	13C5-PFHxA	91%		20-150%
	13C4-PFHpA	102%		20-150%
	13C8-PFOA	106%		20-150%
	13C9-PFNA	107%		20-150%
	13C6-PFDA	116%		20-150%
	13C7-PFUnDA	106%		20-150%
	13C2-PFDoDA	92%		20-150%
	13C2-PFTeDA	56%		20-150%
	13C3-PFBS	104%		20-150%
	13C3-PFHxS	112%		20-150%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	LR-SW-09-042623	Date Sampled:	04/26/23
Lab Sample ID:	JD64649-2	Date Received:	04/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	Lyndon Road Landfill		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	102%		20-150%
	13C8-FOSA	89%		20-150%
	d3-MeFOSA	79%		20-150%
	d5-EtFOSA	78%		20-150%
	d3-MeFOSAA	96%		20-150%
	d5-EtFOSAA	95%		20-150%
	d7-MeFOSE	64%		20-150%
	d9-EtFOSE	70%		20-150%
	13C2-4:2FTS	95%		20-180%
	13C2-6:2FTS	102%		20-180%
	13C2-8:2FTS	96%		20-180%
	13C3-HFPO-DA	81%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 1

SGS NORTH AMERICA INC. - Dayton 2235 Route 130, Dayton, NJ 08810 TEL 732-329-0200 www.sgs.com/ehsusd						FED EX Tracking # SGS Quote #		Bottle Order Control # MM-021523-16 SGS Job # MM-022322-9	
Client / Reporting Information Company Name: Ramboll Street Address: 333 W Washington St City: Syracuse NY State: NY Zip: Project Contact: Robert Trent C Ramboll.com E-mail: Phone #:			Project Information Project Name: Lyndon Road Landfill Street: 80 Lyndon Rd City: Fairport NY State: NY Zip: Billing Information (if different from Report to) Company Name: Project #: 1940102910 Street Address: Client Purchase Order #: City: State: Zip: Project Manager: Robert Trent Attention:			LCRD1633L15T40 SOL104		Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Waste FB - Field Blank EB-Equipment Blank RB - Rinse Blank TB - Trip Blank	
Sample(s) Name(s): S McQuane, J Lombardi Phone #: Matrix:			pH Check (Lab Use Only)						
Field ID / Point of Collection MECH/DI Val # Date Time Sampled by Grab (g) Collected (m) Source Matrix # of bottles HCl NaOH HNO ₃ H ₂ SO ₄ NONE DI Water MICH ENCODE			Turn Around Time (Business Days) Approved By (SGS PM) / Date: ☐ 10 Business Days ☐ 5 Business Days ☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day ☐ Other All data available via SGS Engage * Approval needed for 1-3 BD TAT						
Deliverable ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ NJ Reduced (Level 3) ☐ Full Tier I (Level 4) ☐ Commercial "C" ☐ NJ DKQP			Comments / Special Instructions Custody Seal 08330 Initial Assessment 3A WH Label Verification _____ http://www.sgs.com/en/terms-and-conditions						
Sample Custody must be documented below each time samples change possession, including courier delivery.									
Relinquished by: Fedex Date / Time: 4/27 10:15 Received By: [Signature] Date / Time: Relinquished by: Date / Time: Received By: Date / Time: Relinquished by: Date / Time: Received By: Date / Time:			Therm ID On Ice Cooler Temp. °C See Separate Receipt Summary						

EHS-A-QAC-0023-05 Rev. Date: 8/5/22

3.1 18-40

JD64649: Chain of Custody

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SGS Sample Receipt Summary

Job Number: JD64649

Client: RAMBOLL AMERICAS

Project: LYNDON ROAD LANDFILL

Date / Time Received: 4/27/2023 10:15:00 AM

Delivery Method: FEDEX

Airbill #'s:
Cooler Temps (Raw Measured) °C: Cooler 1: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.9);

Cooler Security
Y or N
Y or N

- | | |
|--|--|
| 1. Custody Seals Present: ☒ ☐ | 3. COC Present: ☒ ☐ |
| 2. Custody Seals Intact: ☒ ☐ | 4. Smpl Dates/Time OK ☒ ☐ |

Cooler Temperature
Y or N

- | | |
|---|-----------|
| 1. Temp criteria achieved: ☒ ☐ | |
| 2. Cooler temp verification: _____ | IR Gun |
| 3. Cooler media: _____ | Ice (Bag) |
| 4. No. Coolers: _____ | 1 |

Quality Control Preservation
Y or N
N/A

- | | |
|---|--|
| 1. Trip Blank present / cooler: ☐ ☐ ☒ | |
| 2. Trip Blank listed on COC: ☐ ☐ ☒ | |
| 3. Samples preserved properly: ☒ ☐ | |
| 4. VOCs headspace free: ☐ ☐ ☒ | |

Sample Integrity - Documentation
Y or N

- | | |
|---|--|
| 1. Sample labels present on bottles: ☒ ☐ | |
| 2. Container labeling complete: ☒ ☐ | |
| 3. Sample container label / COC agree: ☒ ☐ | |

Sample Integrity - Condition
Y or N

- | | |
|---|--------|
| 1. Sample recvd within HT: ☒ ☐ | |
| 2. All containers accounted for: ☒ ☐ | |
| 3. Condition of sample: _____ | Intact |

Sample Integrity - Instructions
Y or N N/A

- | | | |
|---|--|-------------------------------------|
| 1. Analysis requested is clear: ☒ ☐ | | |
| 2. Bottles received for unspecified tests: ☐ ☒ | | |
| 3. Sufficient volume recvd for analysis: ☒ ☐ | | |
| 4. Compositing instructions clear: ☐ ☐ | | ☒ |
| 5. Filtering instructions clear: ☐ ☐ | | ☒ |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

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